SIEMENS

SIREMOBIL Iso-C 3D

SP

System

Software Description

3D Reconstruction and 3D Navigation

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Note regarding the windows shown

The windows shown in this document are for illustration and orientation purposes. They may differ from the actual layout of the windows under MS WINDOWS.

Note regarding software versions

This document was revised on release of software version VB00B. Any software versions stated here therefore serve as examples only and must be replaced by the current software version.

The software versions may differ slightly in the installation routine. Therefore please observe the relevant menus shown.

Safety information

⚠CAUTION	**When performing the work steps and tests, the product-specific safety information contained in the documents as well as the general safety information TD00-000.860.01.01 must be observed.**

Test equipment, tools and aids

NOTICE	**All tools, test equipment and aids, with the exception of the "standard installation tool kit", are listed and specified in the Service Tool Catalog.**

- SPOTMETER for SMfit ACT (replaces MAVO Monitor) 077 52 848
- Service PC (only for SIMOMED monitor)
- Blank CDs, alternatively several floppy disks
- HTML test images (floppy disk) 075 58 567

NOTE	**Use only CD-Rs, since CD-RWs may be incompatible with Syngo.**

Required documents

- Operating instructions of the monitors / TFT displays to be installed
- If BARCO monitors MVG 1318, part number 80 79 530, are present: Replacement instructions TD00-000.841.17...

Important remarks regarding start-up

General remarks

- The system must be completely cabled but not connected to the network.

Text emphasis

Emphasized texts in technical documentation have the following meaning:

⚠DANGER	**DANGER indicates when there is an immediate danger that leads to death or serious physical injury.**
⚠WARNING	**WARNING indicates a risk of danger that may lead to death or serious physical injury.**
⚠CAUTION	**CAUTION used with the safety alert symbol indicates a risk of danger that leads to slight or moderate physical injury and/ or damage to property.**
NOTICE	**NOTICE used without the safety alert symbol indicates a risk of danger that if disregarded leads or may lead to a potential situation which may result in an undesirable result or state other than death, physical injury or property damage.**

All texts labeled with the "p " symbol must be transcribed into the Test Certificate included in the shipment.
These measurement values can then be used for the Acceptance Test required in Germany according to §16 of the Röntgenverordnung or for other national requirements.

Abbreviations used

AE Title	Application Entity Title
DHCP	Dynamic host configurations protocol
DNS	Domain Name System
HCC	Hard Copy Camera
HIS/RIS	Hospital/Radiology Information System
Hub	Center point
ID	Identification
IEC	International Electrotechnical Commission
ISK	Allen screws
MM	Multimeter
PG	Planning Guide
RADIS	Radiological Image Station (designation for image station)
SSW	Service Software
SPDI	Siemens Parallel Digital Interface
TCP/IP	Transmission Control Protocol/Internet Protocol
TB	Collimator
VDE	Verband Deutscher Elektrotechniker
WINS	Windows Internet Name Service
DICOM	Digital Imaging and Communication in Medicine
IP	Internet Protocol
Q/R	Query / Retrieve
SCP	Service Class Provider
SCU	Service Class User
TCP	Transfer Control Protocol
JPEG	Joint Photographic Experts Group
RAS	Remote Access Service
PPP	Point to Point Protocol
USC	Uptime Service Center
HSC	Headquarter Support Center
TFT	Thin Film Transistor

Definitions

AE Title (AET) DICOM Application Entity Title. Must be unique in a DICOM network.

Conformance Statement Each manufacturer of a DICOM device has to provide this type of statement, since it provides an overview of the product's DICOM capability.

DHCP Dynamic Host Configuration Protocol. Reduces the complexity of configuring computers for TCP/IP networks. The following TCP/IP configuration can be dynamically assigned by a DHCP server: IP Address, Subnet masks, gateway and additional parameters, such as domain name.

DNS The Domain Name Service is used to resolve the TCP/IP address from a user-friendly host name.

Dongle Device plugged into the parallel port of the computer that provides a unique ID for license handling.

A security or copy protection device for commercial microcomputer programs consisting of a serialized EPROM and several drivers in a D-25 connector shell, which must be connected to an I/O port of the computer while the program is running. Programs that use a dongle query the port at start-up and at subsequent programmed intervals. The programs terminate if the **port (dongle)**does not respond with the dongle's programmed validation code.

Hub Distributor in a network using the star topology. A hub allows data transfer between computers.

IP Address 32-bit address assigned to hosts using TCP/IP. An IP address belongs to one of four classes (A, B, C, D) and is written as 4 octets separated by periods (dotted decimal format). Each address consists of a network number, an optional sub-network number and a host number. The network and the subnet numbers are used for routing, while the host number is used to address an individual host within the network or the sub-network. A subnet mask is used to extract network and sub-network information from the IP address.

The IP is part of the socket address.

Port Part of the socket address. Different DICOM services on the same host PC may use different port numbers.

Subnet mask The subnet mask is used to extract network and sub network information from the IP address.

Router	A device that connects different networks. Different means either a different architecture or a different type of protocol. In a TCP/IP environment, a router is used to connect computers that are located in different IP address ranges.
Service Key	Required to enter the service UI. The key has to be generated prior to the first software installation.
Socket Address	The socket address consists of the IP and the port number.
WINS	WINS provides a distributed database for registration and querying dynamic Net-BIOS names to IP addresses.
Vendor ID	Unique identification number provided by a dongle.
Compression	Running a data set through an alogrithm which reduces the space required
Remote Access Service	A service that allows remote clients running Microsoft Windows or Windows NT to dial into a network.

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Requirements

System requirements

The system requirements are described in the document “Planning Guide: Pub. No. SPR2-230.021. .....".

General requirements

NOTICE

A service key is required to configure the station. If the 3D option was installed in the factory, the service key can be found in the system logbook. Otherwise it must be created in the intranet before starting work. URL: http://www-td.med.siemens.de
A key for Service Level 7 is required.

Please have the Dongle ID ready, which is needed to create a service key. Please contact the appropriate personnel in the Regional Unit.
The generation process is described in ARTD-001.719.12.01. “Service/ Application Licensing Process”.

- The SIREMOBIL Iso-C 3D must be connected and operational.
- The cables for the network are available but not yet connected.
- All the required configuration data must be available, i.e. the configuration table in the PG or in the Software Description must be completed accordingly.
- The SIREMOBILI Iso-C 3D software package must be available.

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Prerequisites for Host and Memoskop SW Update

NOTICE	**Please note the service PC settings.**

Prior to starting the software updates, please observe the following:

- The serial interface cable used has to be fully wired and be OK.
- Switch off the screen saver and end the programs running in background.
- Check the jumpers D1.X95 / D1.D96 / D1.X 99. They should be set to position 2-3.
- Check the serial port FIFO settings of your service PC. The FIFO of the serial port must be enabled (default settings).
- In case of correct host but incorrect MEMOSKOP communication, temporarily switch D1.S3.2 to position ON. Ignore the error messages displayed at the SIREMOBIL user console. Ignore the MEMOSKOP service software error message "No communication with the X-ray system" and close it by clicking the "Ignore" button. Select the correct type of MEMOSKOP and begin the necessary service work. After completion of the MEMOSKOP service steps, switch D1.S3.2 back to the OFF position.
- Do not use the "SCENIC MOBILE 350" service PC. It is not compatible.

*

FIFO settings

Steps for Windows in English

- Select the Windows footer
- Select "Start"
- Select "Settings"
- Select "Control Panel"
- Select "System"
- Select "Device Manager"
- Select "Ports"
- Select "COM Port"
- Select "Port Settings"
- Select "Advanced.."
- "Use FIFO buffers" must be marked with "V"

Installation of the system service software at the service PC

- Delete any existing MEMOSKOP service software from the hard drive of the Service PC .
- Install the MEMOSKOP service software (3 disks, material no. 30 99 715 G5437) on the Service PC.
- For SIREMOBIL ISO-C systems, install the system software supplied (Material no. 56 46 653 G5464 system disk 2) on the Service PC.

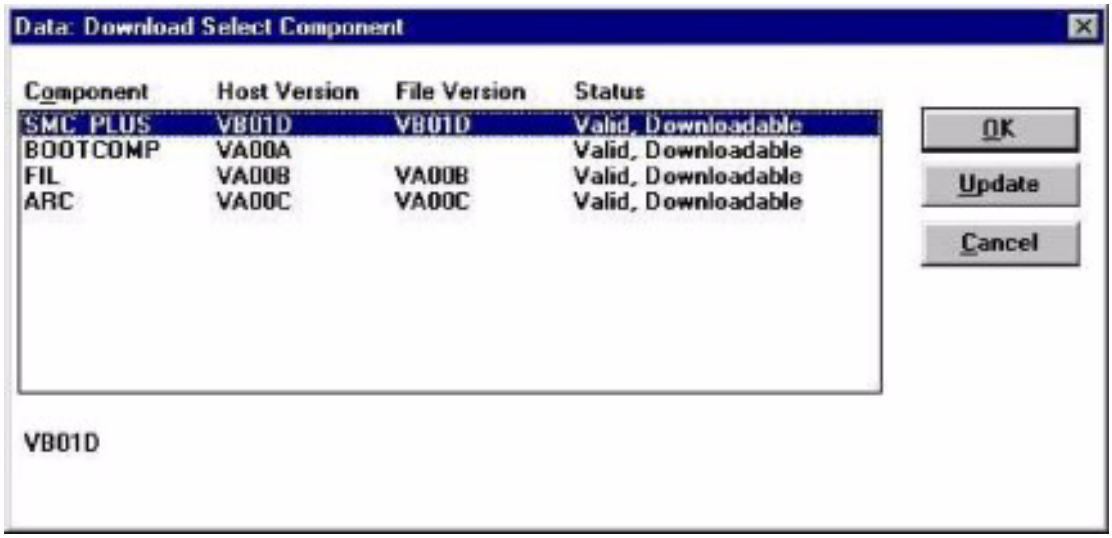
Preliminary work

- Remove the back cover of the monitor trolley (important for installing the MEMOSKOP software).

Saving the system parameters to a disk

- Connect the Service PC to the serial port of the SIREMOBIL.
- Insert the parameter disk 2 of the SIREMOBIL system software from the update kit into drive A of the Service PC.
- Start the system service program and log on to the system ("System" menu - "Connect", "Logon" button).
- Confirm the question "Password has been changed. Put new Password to Unit?" by clicking the "Yes" button.
- Close the "Password expires on 00:00:00" info by clicking the "OK" button.
- The " Service PC- SIREMOBIL .... " program window is displayed.
- Select the "Data" - "Backup" menu.
- Select the "Parameters" line and start the backup. The remark line may be empty.
- Go back to the main menu of the service program.

Installing the Iso-C software



- Select the "Data" menu in the menu bar of the " Service PC- SIREMOBIL ... " program window. .

NOTE	**Fig. shows the "Data: Download" window as an example. In the "File version" column, the actual version of the system software will be displayed.**

- Select the "Download" menu.
- The "Data: Download Select Component" program window is displayed.
- Select the "SMC PLUS" component and start downloading by clicking "OK".
- Confirm the "Flash-EPROMs of the selected component will be erased. This process may take some time. Confirm the "Do you want to continue?" question by clicking "Yes".
- Start downloading by clicking "Start".

NOTICE	**Only the host (SMC PLUS) has to be downloaded. The download procedure is the same for all SIREMOBIL systems. The only difference are the software versions.**

- After the download, wait approx. 1 minute while the system reboots.
- Close the download window by clicking "Cancel".
- Log out from the service program ("System" menu - "Logoff").
- Enter "Field Test SW downloaded" under service entry.

- Exit the service program ("System" menu - "Quit").
- Switch the system off and then back on again.
- The SIREMOBIL is once again ready for operation.
- Replace the existing system software with the new software and file this info in the system manual.
- If the parameters are changed after the installation, the item "Saving the system parameters to a disk " must be performed again.

Saving the MEMOSKOP parameters to a disk

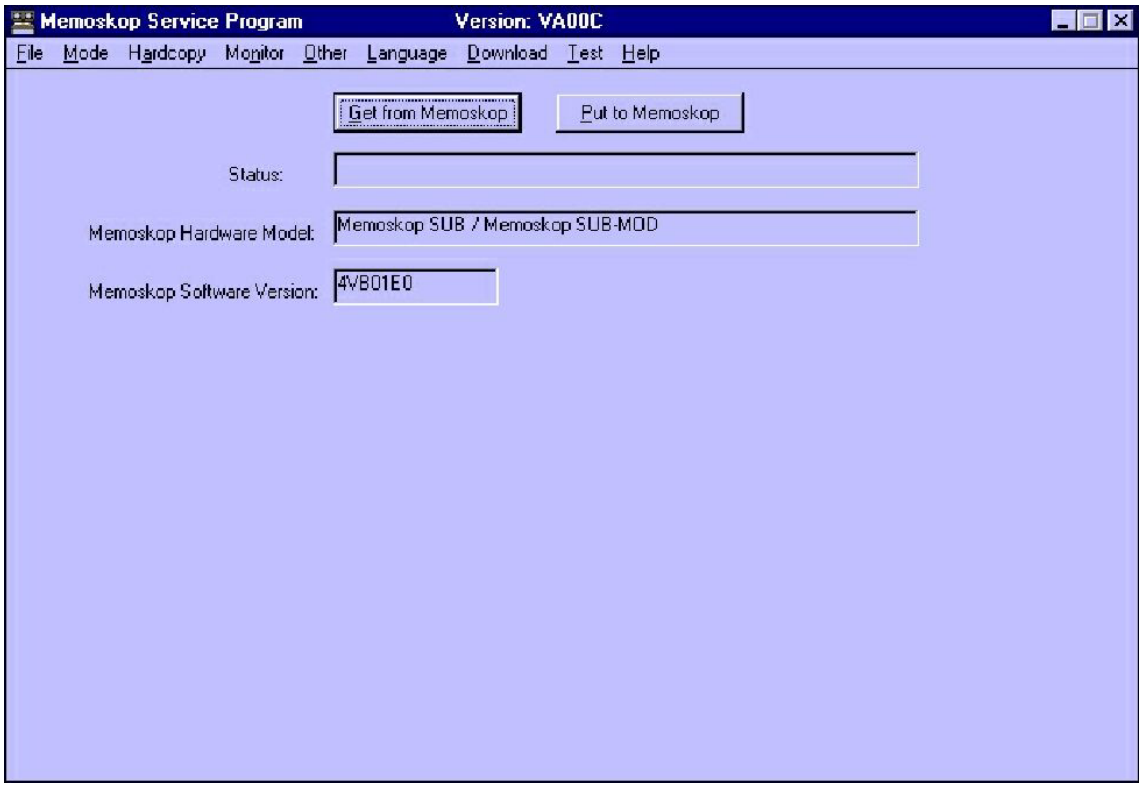
NOTICE	**Please note the prerequisites.**

NOTICE	**Save the parameters to a disk before starting the MEMOSKOP download.** **If the parameter set cannot be saved to disk, read out the MEMOSKOP parameters (User setup and Technical setup) and record them.**

NOTICE	**If a transfer error or "ComPort", "Download", "Get from Memoskop", "Put to Memoskop" error messages or errors recur when the loading the language file, repeat this function several times. If the problem persists, exit the service software.** **Switch the SIREMOBIL off and then back on, wait for power-up and start the service software again. Perform the last work step again.**

- Insert the Memoskop "User Programs" disk into drive A of the service PC.
- Start the MEMOSKOP service software.
- Enter the password and press the Return key on the PC.
- Select the required serial interface on the service PC.

The "Memoskop Service Program" program window is displayed.



- After the main menu appears, click the button "Get from Memoskop" and wait for the transfer of the parameters from the MEMOSKOP to the PC. After the transfer, the status line shows "....Receiving configuration done".
- Then save the parameters to the diskette (menu "File", submenu "Save").
- Enter the current date as the file name. Use the file extension "mem".

Example:

The current date is: (DD_MM_YY) 28_07_03

Enter the file name + file extension: 28_07_03.mem

- Wait for the parameters to be saved to disk.

NOTE	**Please read the prerequisites in case of errors while transferring the MEMOSKOP parameters to the service PC (e.g. communication errors).**

NOTICE	**If the MEMOSKOP service program needs to be restarted, switch the unit off and then back on again.**

- If it is not possible to save the MEMOSKOP parameter set to the disk, all parameters (User setup and Technical setup) must be read out and recorded.

Downloading the MEMOSKOP software

NOTICE

Please read the prerequisites on page 7 in case of errors during the downloading of the MEMOSKOP software (e.g. communication errors).

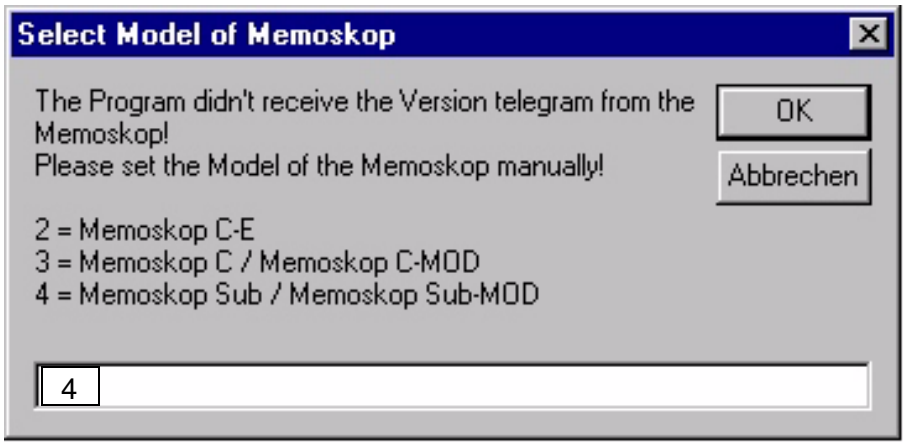
If this is the case, stop the download procedure and attempt to download the software as described in the section "Downloading the MEMOSKOP with empty Flash Proms."

- For the MEMOSKOP displayed, insert the corresponding diskette supplied in drive A of the Service PC (MEMOSKOP software).
- Select the "Download" menu.
- Select "Select file for Download:" .
- The "Open File" program window opens.
- Select drive A.
- Select the file xVxxxxx.mot) and confirm selection with "OK".
  (first x = 3 or 4, depending on existing MEMOSKOP.
  subsequent x = place holder for the actual SW Version code. See below).

3	MEMOSKOP C-E 100/ C/ C-MOD	Select 3Vxxxxx.mot
4	MEMOSKOP CSub/ CSub-MOD	Select 4Vxxxxx.mot

NOTICE

If the service program is not able to automatically recognize the MEMOSKOP installed, select the MEMOSKOP type manually.


Select Model of Memoskop
The Program didn't receive the Version telegram from the Memoskop!
Please set the Model of the Memoskop manually!
OK
Abbrechen
2 = Memoskop C-E
3 = Memoskop C / Memoskop C-MOD
4 = Memoskop Sub / Memoskop Sub-MOD
4

- Select "Erase FLASHes".
- Press the reset button for 4 seconds on the back of the MEMOSKOP, as soon as possible.
  - ② While the Flash Proms are being erased, dots will be displayed in the status line.
  - ② After erasing, the "...Ready" message will be displayed in the status line.
  - ② The DOWNLOAD button is now selectable.

NOTE	**The "Download File" button must be pressed (clicked) within 1.5 minutes maximum!**

- After a successful download, the "Download complete" message will be displayed in the status line.

NOTICE	**If the download is not performed in full (communication errors or undefined symbols in the status line), stop the download procedure and follow the description under "Downloading the MEMOSKOP with empty Flash Proms".**

- Exit the Service program.
- Switch the unit off and then back on again (wait for entire power-up sequence).
- Restart the Service program.

Downloading the MEMOSKOP with empty Flash Proms

NOTE

This section describes the downloading procedure for the MEMOSKOP with empty Flash Proms. Skip this section if dowloading was successfully completed as described.

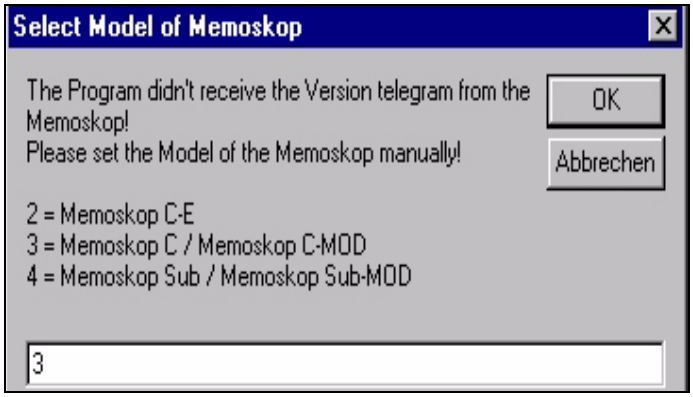
- Switch the unit off and exit the Memoskop service program.
- Remove the cover of the basic unit and the rear cover of the monitor trolley.
- Set the service switch D1.S3.2 to the ON position.
- Switch on the unit. Ignore the error messages displayed on the user console.
- Insert the corresponding diskette supplied in drive A of the Service PC (MEMOSKOP software).
- Start the MEMOSKOP service program and enter the password.
- Select the serial interface of the service PC.
- Ignore the message "No communication with the X-Ray system. Therefore click the button "Ignore".
- In response to the error message "The Program didn't receive the version message from the Memoskop", manually select the MEMOSKOP model.

3 MEMOSKOP C-E 100/ C/ C-MOD
4 MEMOSKOP CSub/ CSub-MOD

- Select the "Download" menu.
- Select "Select file for Download:".
- The program window "Open File" opens.
- Select drive A.

Select the file xVxxxxx.mot) and confirm selection with "OK".
(first x = 3 or 4, depending on existing MEMOSKOP.
subsequent x = place holder for the actual SW Version code. See below).

3 MEMOSKOP C-E 100/ C/ C-MOD Select 3Vxxxxx.mot
4 MEMOSKOP CSub/ CSub-MOD Select 4Vxxxxx.mot


Select Model of Memoskop
The Program didn't receive the Version telegram from the Memoskop!
Please set the Model of the Memoskop manually!
OK
Abbrechen
2 = Memoskop C-E
3 = Memoskop C / Memoskop C-MOD
4 = Memoskop Sub / Memoskop Sub-MOD
3

- Select "Erase FLASHes" .
- Press the reset button on the back of the MEMOSKOP for 4 seconds as soon as possible.
  - ② While the Flash Proms are being erased, dots are displayed in the status line.
  - ② After erasing, the "...Ready" message is displayed in the status line.
  - ② The DOWNLOAD button is now selectable.

NOTICE	**The "Download File" button must be pressed (clicked) within 1.5 minutes maximum!**

- Select "Download File" .

NOTE	**It will take approximately 20 minutes to load the new MEMOSKOP software.**

- After successful completion of the Download, the "Download complete" message will be displayed in the status line.
- Wait until the MEMOSKOP is rebooted.
- Exit the Service program.
- Switch off the unit.
- Set the service switch D1.S3.2 back to the OFF position.
- Switch the unit on (wait for entire power-up sequence).

NOTE	**If the download is not performed completely (communication errors or undefined symbols in the status line), read the prerequisites.** **Stop the download procedure, end the MEMOSKOP service program, switch off the unit and repeat the download procedure as described in section "Download with empty Flash Proms".**

The MEMOSKOP parameters are stored to a disk

- Switch on the unit.
- Start the MEMOSKOP service program.
- Select the menu "File" - "Open".
- Select the previously stored MEMOSKOP parameter file (example name was 28_07_01.mem) and click the "OK" button. The stored parameters will be transferred to the service software.
- Select the "Mode" menu as well as the sub-menus for the operating modes and user programs. Read the stored parameters and manually reprogram the parameters at the MEMOSKOP keyboard (User setup / Technical setup).
- Select the "Hardcopy" menu. Read the stored parameters and manually reprogram the parameters at the MEMOSKOP keyboard (User setup / Technical setup).
- Select the "Monitor" menu. Read the stored parameters and manually reprogram the parameters at the MEMOSKOP keyboard (User setup / Technical setup).
- Select the "Other" menu. Read the stored parameters and manually reprogram the parameters at the MEMOSKOP keyboard(User setup / Technical setup).

MEMOSKOP Parameters are recorded manually

- The MEMOSKOP parameters were recorded previously. Reprogram all parameters at the MEMOSKOP keyboard.

Checking the MEMOSKOP software

- Call "User Setup".
- The text displayed must correspond to the language file loaded.
- The software version of the MEMOSKOPS must be displayed in the first line.
- Exit "User Setup" with the "Home" button.

Storage configuration

- Start the SIREMOBIL Iso-C again. It will take approx. 2 minutes.
- To get the largest possible reconstructed volume, select the largest possible blanking circle.
- Move the C-arm into the basic position.
- Select the technical SET UP: use "CTRL-T" password,.....'
- Select the parameter: "Circle Maske setup".
- Select the parameter: "change circle mask radius". The monitor displays a cross and an arrow.
- Use the arrow key to enlarge the radius up to the image margin. Please note that you have to be able to see the entire arrow.
- Wait until the arrow disappears.

- Press the "Home" key until the "Technical Set Up Menu" display appears.
- Select "More Selections".
- Select "Interface to 3D-PC" .
- Click "Yes".
- Press "enter" .
- Press the "Home" key until the "Technical Set Up Menu" display appears.
- Select "Diagnostics".
- Select "Enable Bridge"
- Select "Yes" and store it by pressing the "Enter" key.
- Select "Bridge delay".
- Enter the numerical value "120".
- Press "enter".
- Press the "Home" key.

Perform the activities listed below in accordance with the Service Instructions SPR2-230.061.01.xx Version 08 or higher.

Set the following:

Collimator, X-Iris

Collimator, Slot diaphragm

Collimator display on the monitor

Correction of the 0° position of the slot diaphragm display

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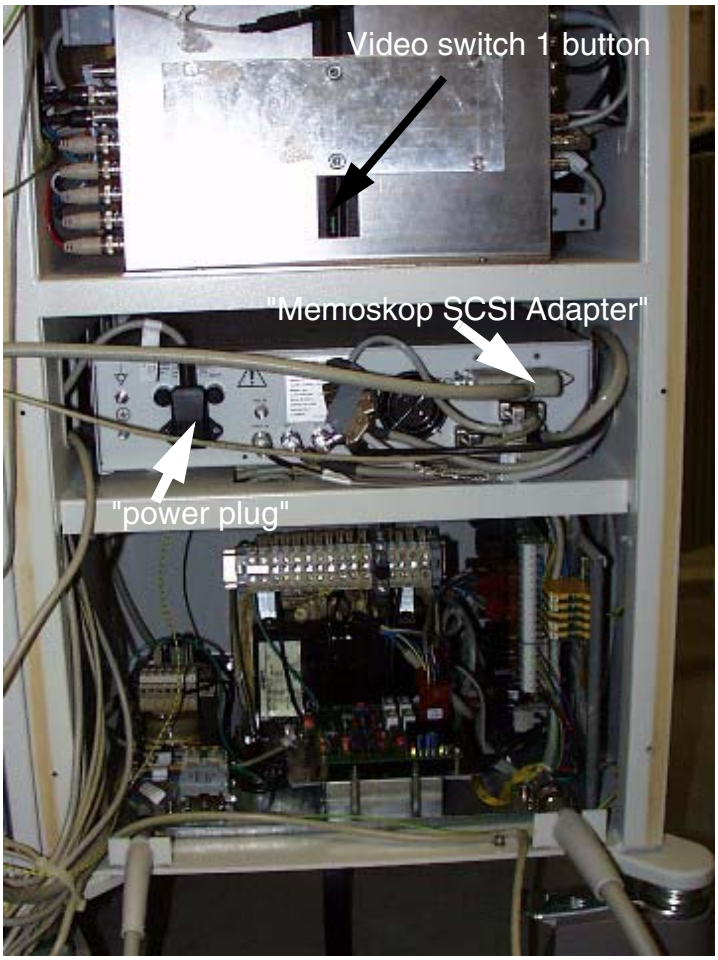
Installing the SIREMOBIL Iso-C 3D software for 3D reconstruction and 3D navigation

NOTE

The 3D Navigation option is either already part of the 3D software on the system or is supplied on the 3D software CD in the "Iso-C 3D Navigation Kit".

- The SIREMOBIL Iso-C must be switched off.



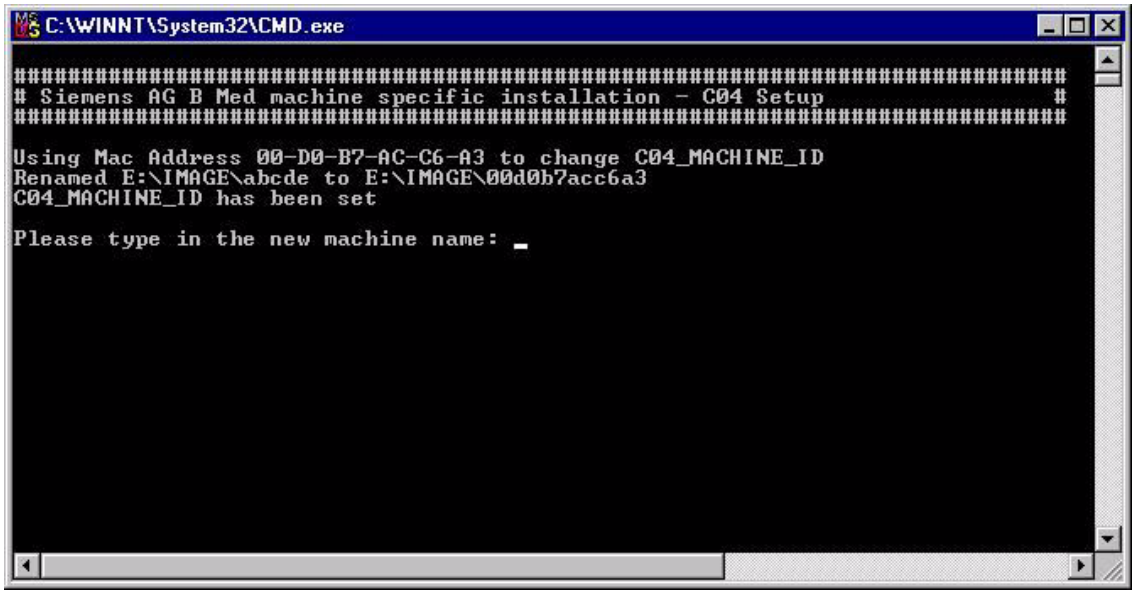
- The rear panels of the monitor trolley and the 3D-PC must be removed.
- Disconnect the "Memoskop SCSI Adapter" plug from the PC.
- Disconnect the "power plug" from the MEMOSKOP.
- Disconnect the "DICOM power plug" from the 3D PC
- Connect the Dongle, if not already connected.
- Release the video switch-over switch 1 (to the left as viewed from the back of the monitor), i.e., the switch should not be pressed.
- Restart the SIREMOBIL Iso-C.
- Insert the CD with the Iso-C 3D software.

- Switch off the SIREMOBIL Iso-C and wait until the system has shut down completely.
- Restart the Siremobil Iso-C.
  - ② The PC will start automatically. The start-up can be viewed on the right monitor.
  - ② After approx. 5 to 15 minutes the following message appears on the screen:

```
= Installation complete …==========================
||  System and image partition were set up.                ||
||  Please make sure there is no disk in the floppy drive  ||
||  (Press any key to reboot the system now)               ||
||  IMPORTANT : While the system is rebooting, eject       ||
||  the CD-ROM and remove it from the drive !              ||
 ================================================
```

- Press the space bar and remove the CD.
- Switch on and off at the monitor trolley.
  - ② The 3D PC will reboot.

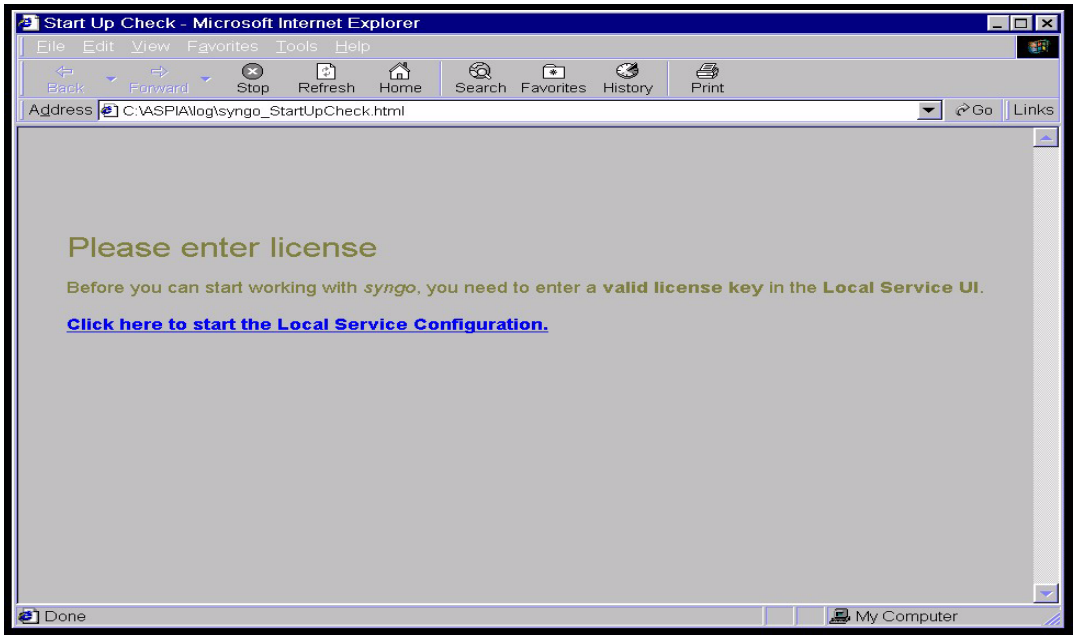
② Wait until the following screen appears.
Ignore the message concerning monitor settings.


C:\WINNT\System32\CMD.exe
Siemens AG B Med machine specific installation - C04 Setup
Using Mac Address 00-D0-B7-AC-C6-A3 to change C04_MACHINE_ID
Renamed E:\IMAGE\abcde to E:\IMAGE\00d0b7acc6a3
C04_MACHINE_ID has been set
Please type in the new machine name:

- Enter the 3D PC name (ID no. of the computer; this is located on the PC label).
- Press the "Enter" key 2x.

② The computer will shut down and restart automatically.

② Internet Explorer will start; the following screen will appear.


Start Up Check - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Print
Address C:\ASPIA\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

Change of Directory permissions

NOTE	**Before entering the license key, the access rights for the Med_Pixel drive must be changed as described below.**

Click the Start button and select the "Logoff Meduser" menu.

Press and hold down the Shift key and then click the Yes button.

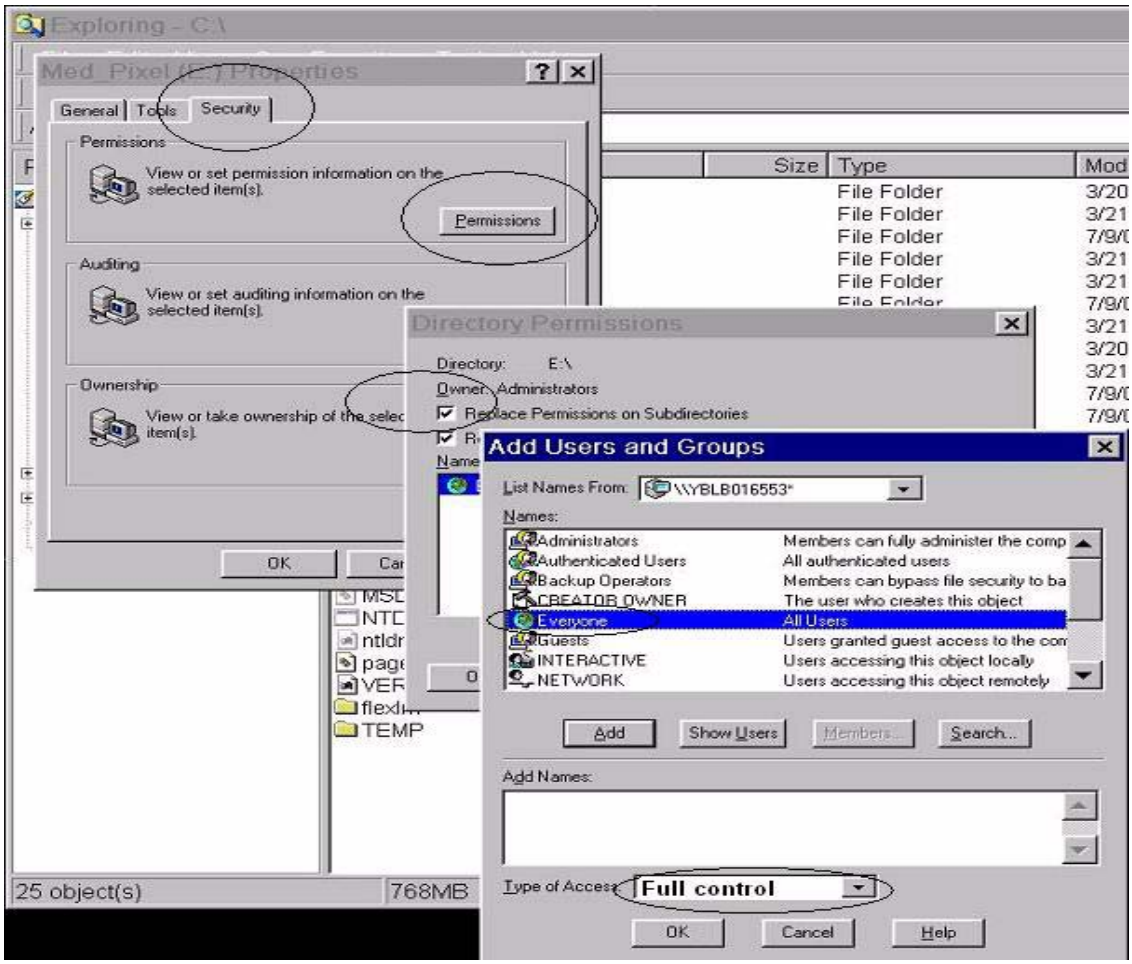
The "Logon Information" window is displayed.

You can now release the Shift key.

In the "Logon Information" window, enter "administrator" as user name.

In the "Logon Information" window, enter "admpwd4$med" as password.

Click the OK button to close the window.



Open the Windows NT Explorer (Menu "Start - Programs - Windows NT Explorer").

Select the "Med_Pixel (E:)" drive and press the right mouse button.

Click "Properties" in the popup menu. The "Med_Pixel (E:) Properties" window is displayed.

Select the "Security" tab.

In the "Security" window, select the "Permissions" button. The "Directory Permissions" window is displayed.

In the "Directory Permissions" window, select the checkbox marked "Replace Permissions on Subdirectories".

In the "Directory Permissions" window, click the "Add" button. The "Add Users and Groups" window is displayed.

In the "Add Users and Groups" window, under "Names:", click "Everyone" and accept the selection by clicking the "Add" button.

In the "Add Users and Groups" window, in the "Type of Access:" selection window, select "Full control" and confirm by clicking the OK button.

Close all windows by clicking the OK button.

Restart the PC by clicking "Start"- Shutdown - Restart - OK.

Wait until the system has booted.

The "Logon Message" window is displayed. Close this window by clicking the OK button.

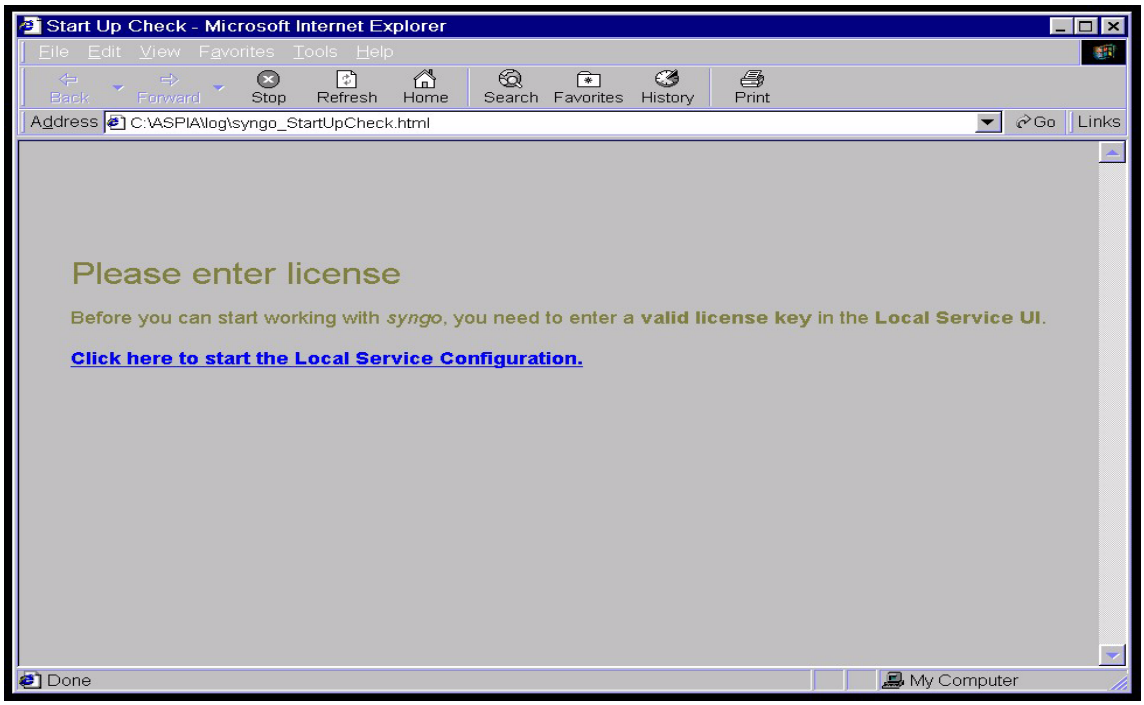
The "Logon Information" window appears.

Enter "meduser" as user name.

Enter "@medUser000" as password. (For the @ symbol, press Shift + 2).

Close the window by clicking OK.

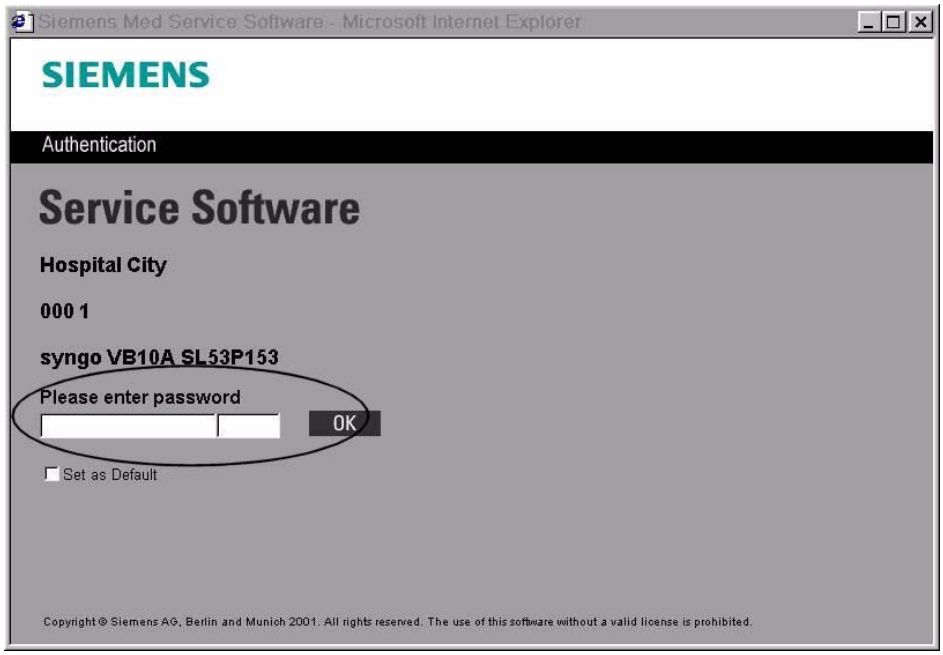
The Internet Explorer will start; the following screen will appear:


Start Up Check - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Forward Stop Refresh Home Search Favorites History Print
Address C:\ASPIA\log\syngo_StartUpCheck.html
Go Links
Please enter license
Before you can start working with syngo, you need to enter a valid license key in the Local Service UI.
Click here to start the Local Service Configuration.
Done
My Computer

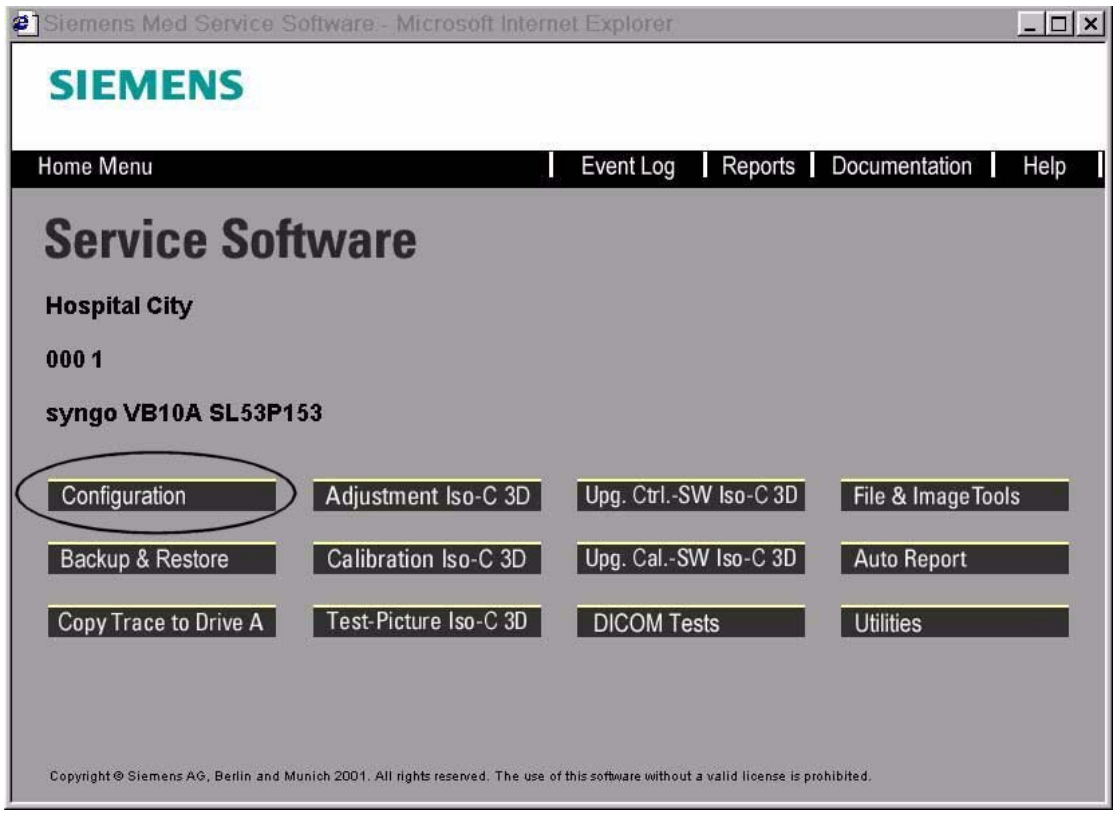
Starting the Syngo service software

- Select "Click here to start the Local Service Configuration".

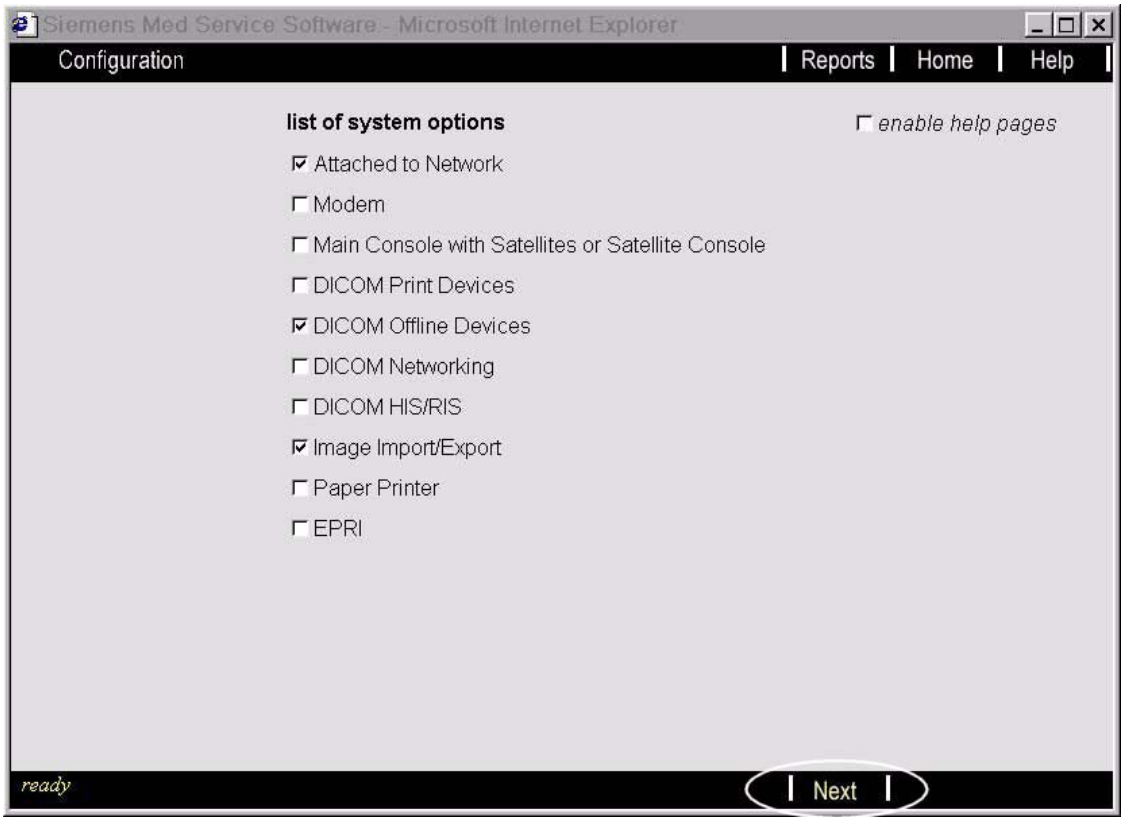
② The "Service Software" mask appears.


Siemens Med Service Software - Microsoft Internet Explorer
SIEMENS
Authentication
Service Software
Hospital City
000 1
syngo VB10A SL53P153
Please enter password
OK
Set as Default
Copyright © Siemens AG, Berlin and Munich 2001. All rights reserved. The use of this software without a valid license is prohibited.

- Enter the service key under "Please enter password," 14 digits in the first field and 6 digits in the second field. This service key is supplied on paper.
- Select "Set as Default".
- Press the "OK" button.

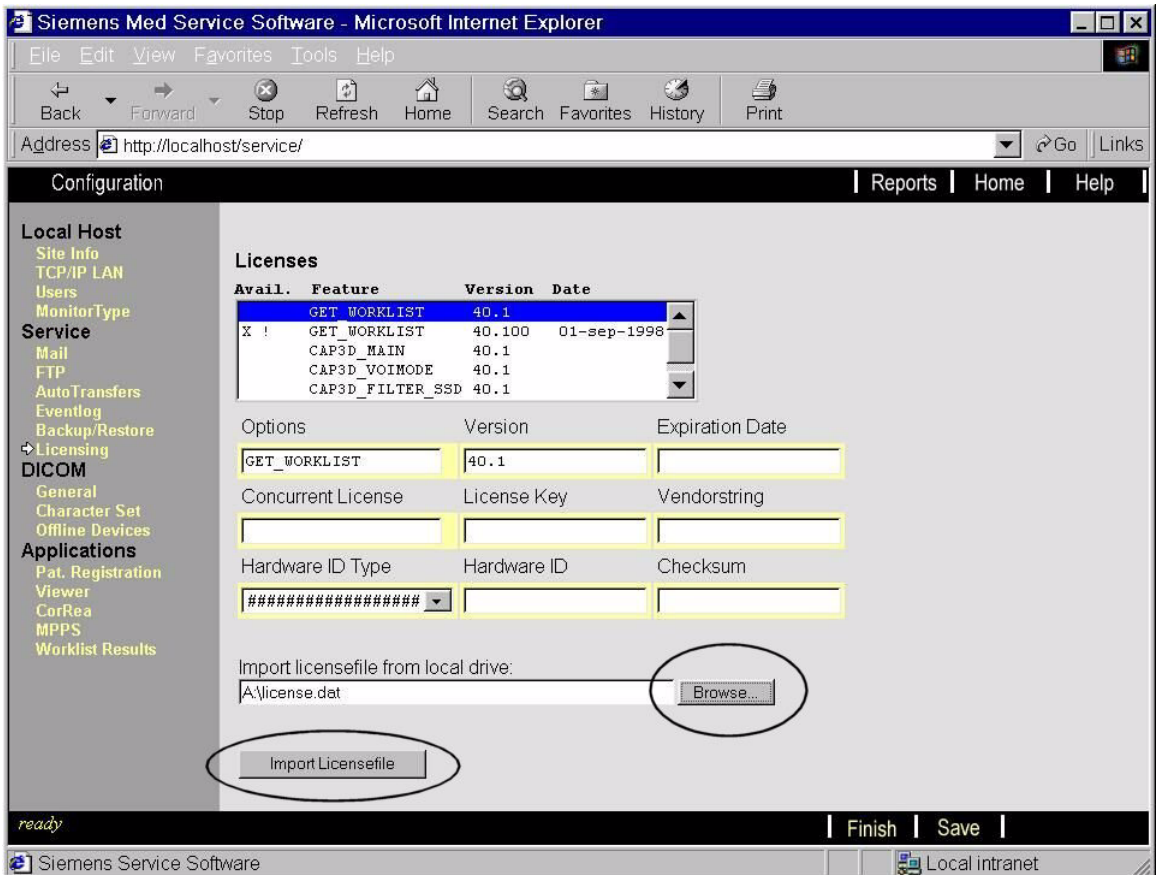


- Select "Configuration".



- Select "Next".

- Select "Licensing" in the list under Service.



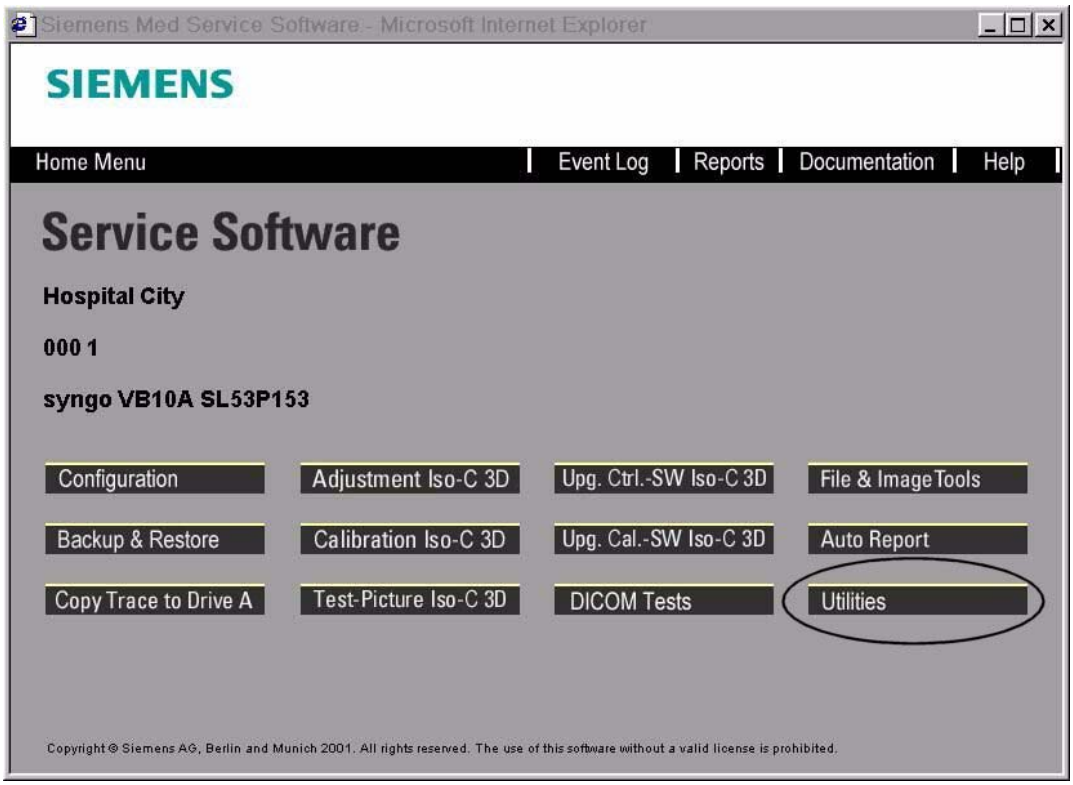
- Insert the disk with the license file.
- Click "Browse".
- Select drive "a".
- Select the file with the extension ".dat".
- Select "Import license file".
- When prompted to overwrite the existing license file, confirm by clicking "OK".

  ② The following message will appear "License data successfully saved"
- Select "OK".
- Press the "Home" button.

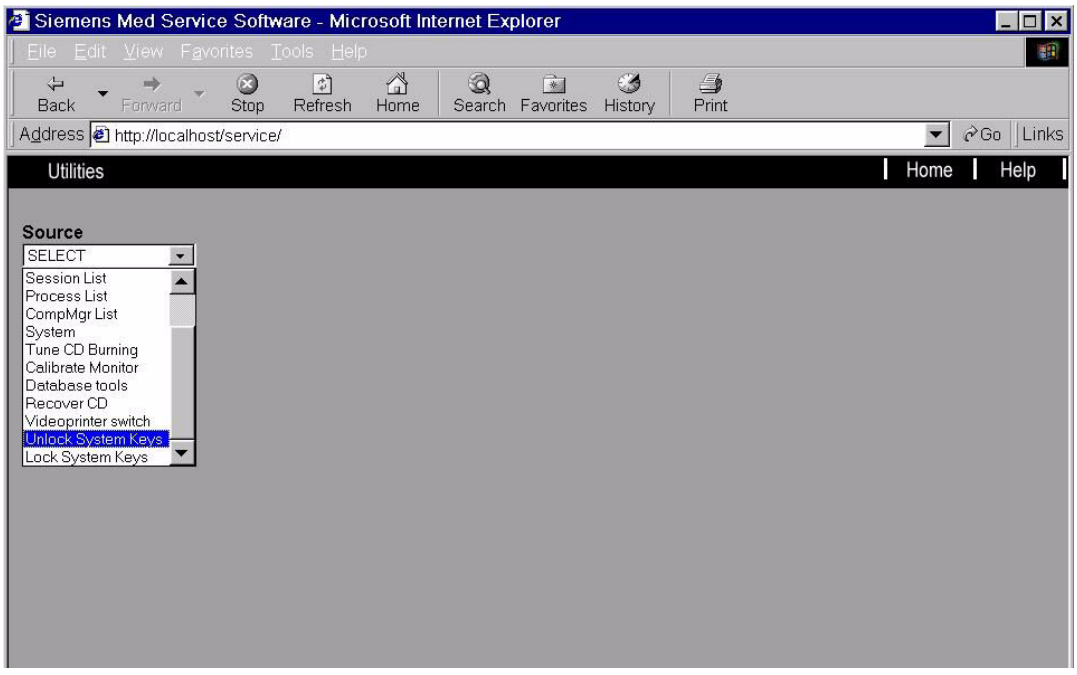
Microsoft Internet Explorer
a restart of application SW is necessary to make changes valid!
Press OK to launch restart or select Cancel
OK
Cancel

- Select "Cancel" in the pop-up message. Do not restart the PC!

② The Syngo interface will appear.



- Select "Utilities".



- Under "Source," select the item "Unlock system key".
- Select "OK".

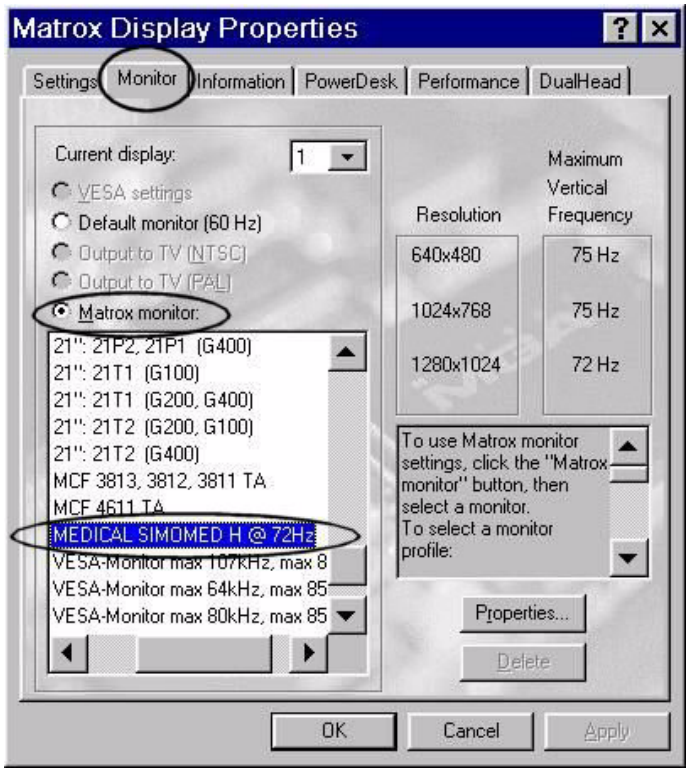
Note

After exiting the program, the Windows task bar is closed automatically. To display the task bar again, press the key combination "CTRL" + "ESC".

The "Matrox Display Properties" program is closed automatically after each setting and selection of the OK button. The program must be restarted for the next settings (Start - Programs - Matrox Power desk NT - Matrox Display Properties).

- Press the "CTRL" + "ESC" keys.
- Click "Enter".

  ② The windows "Start" button will appear.
- Select "Start".
- Select "Programs".
- Select "Matrox Power Desk NT".
- Select "Matrox Display Properties".

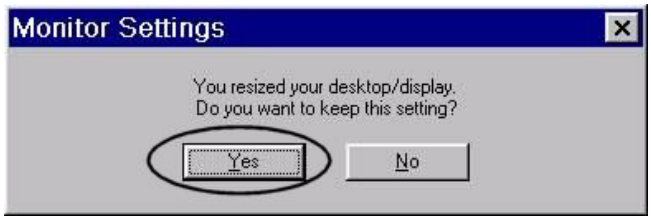


- Select the "Monitor" button.
- Select "Matrox Monitor".
- In the selection window, select "Siemens" by double-clicking.
- Select the "Medical Simomed H @ 72 Hz" monitor.

- Select "Apply".

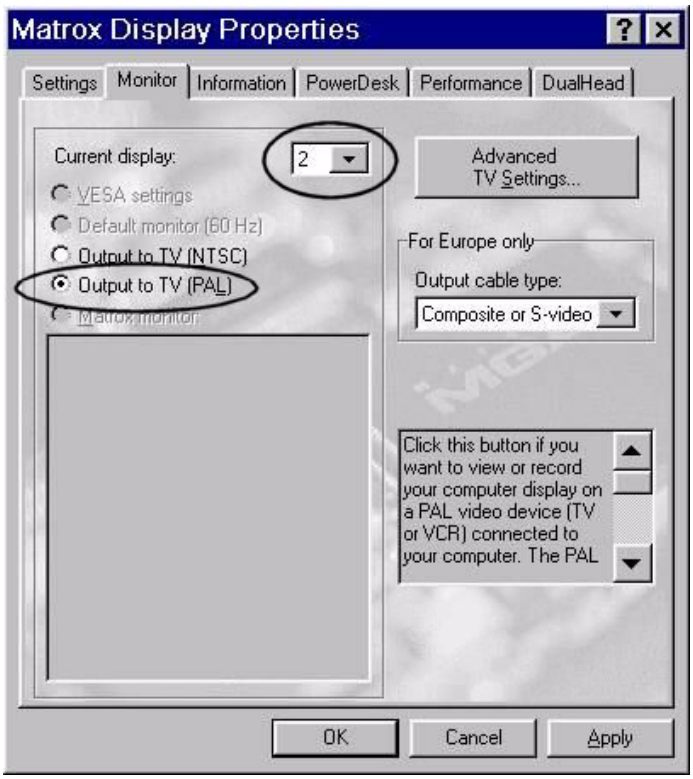
Display Properties
Windows will now resize your desktop/display.
This could take a few seconds, during which your screen might flicker.
If windows does not reappear correctly, wait 15 seconds, and your original settings will be restored.
OK

- Confirm by clicking "OK".



- Confirm the message by selecting "YES".

② The monitor resolution has been changed over.

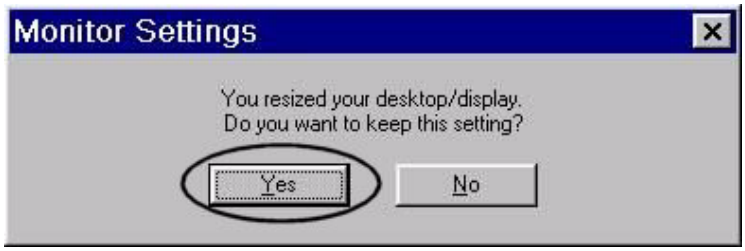


- Under "Current display" select 2.
- Select "Output to TV (PAL)".

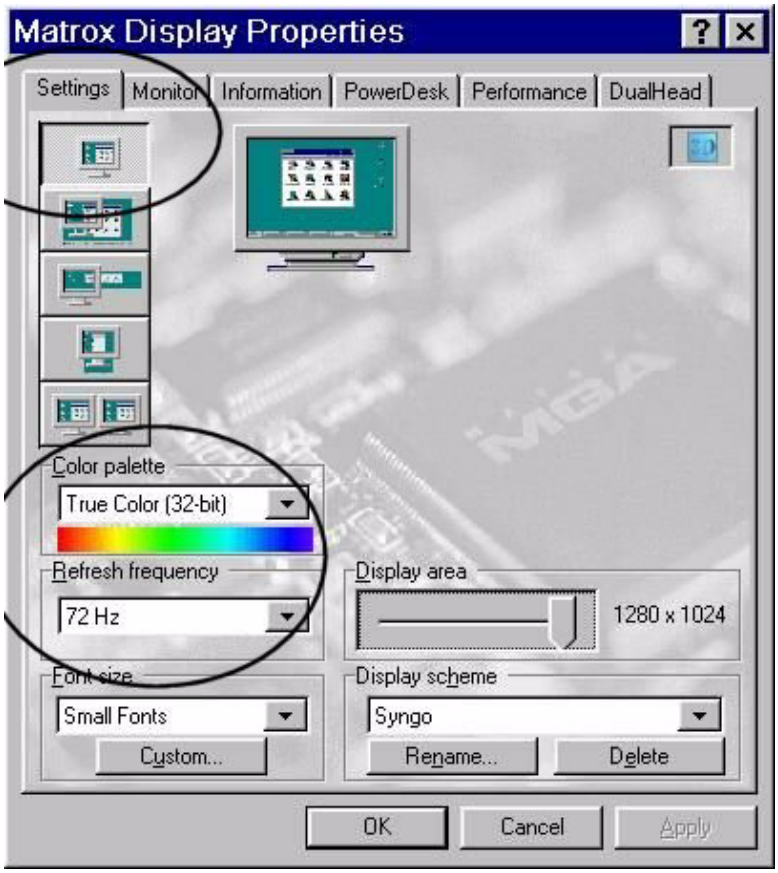
- Confirm by clicking "Apply".

Display Properties
Windows will now resize your desktop/display.
This could take a few seconds, during which your screen might flicker.
If windows does not reappear correctly, wait 15 seconds, and your original settings will be restored.
OK

- Confirm by clicking "OK".



- Confirm by clicking "Yes".



- Select "Settings".

- Select "True Color (32-bit)".
- Select "72 Hz" refresh frequency.
- Confirm by clicking "OK", even if the other settings are correct.
- Select "Start".
- Select "Shutdown".
- Select "OK" for shutdown.
- Wait until the "restart" prompt appears.
- Shut down the SIREMOBIL Iso C 3D.
- Wait until the SIREMOBIL Iso C 3D has shut down completely.
- Connect the Memoskop power plug.
- Connect the SCSI plug to the Memoskop.
- Remove the diskette.
- Switch on the SIREMOBIL Iso-C 3D.

  ② The system will start. Syngo will start on the right monitor.
- Wait until the Syngo task card is displayed.
- Switch off the SIREMOBIL Iso-C 3D.
- Press the video switch-over switch 1(the button is now depressed).
- Switch on the SIREMOBIL Iso-C 3D.

  ② The Memoskop image will appear on the right monitor.

Installation of available SW patches

- All available patches (i.e. hotfixes) must be installed again, after the installation of the 3D software. Use the published documents for the installation (SI's, UI's...)

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Control software

- Switch on the SIREMOBIL Iso-C.
- Select "Option".
- Select "Local Service".
- Enter password.
- Select the "Upgrade Ctr.SW" button.
- Load the CD Upgrade CTR.SW.
- Select "CD:".
- Click the "Go" button.

After the message "download successful" appears:

- Remove the CD.
- Click the "OK" button.

The Reconstruction PC will shut down automatically.

- Switch off the SIREMOBIL Iso-C 3D.
- Restart the SIREMOBIL Iso-C 3D.

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Orbital potentiometer

- Restart the system.
- Simultaneously press "Ctrl + D".
- Select "options".
- Select "Local Service", the Service Software window will appear.
- Enter the password when prompted "please enter the 20-digit password." Do not select "set as default."
- Select "Adjustment Iso-C 3D".
- Move the C-arm to the final position.
- Remove the cover for the drive unit.
- Loosen the Allen screws on the potentiometer.
- Rotate the potentiometer counterclockwise to the end stop.
- Rotate the potentiometer two turns clockwise.
- Retighten the Allen screws on the potentiometer.
- Press "Go." The potentiometer value is displayed.
  The new value must be between the X value and the Y value
- If the value is between the X and Y values, press "Save." The message "New Value Data is saved" will appear.

Possible errors

Error	Possible cause	Corrective measure
Value is not within tolerance.	Potentiometer not properly set.	Repeat setting.
	Potentiometer defective, value must be 200 ohms.	Replace coupling unit.
The same value is always displayed.	Break in line.	Check line connections.
	Emergency shutdown button depressed.	Pull out emergency shutdown button.
No value is displayed.	Software error.	Restart system.
	Other	Read out error messages in Eventlog Reader. Analyze and treat error messages according to troubleshooting instructions.

Tab. 1 Adjustment of the orbital potentiometer

Orbital angle

- Move C-arm to the end position = -90°.
- Ensure that the area is free of obstacles.
- Press "Go." C-arm movement will start.
- The message " Start angle is fixed" will appear.

Possible errors

Error	Possible cause	Corrective measure
C-arm travels to the end stop.	Improper end switch setting.	Repeat setting.
The message "Start angle is fixed" does not appear.	Other	Read out error messages in Eventlog Reader. Analyze and treat error messages according to trouble-shooting instructions.

Tab. 2 Start angle of the orbital angle

Angulation angle

- Move the C-arm to 0 degrees angulation.
- Press "Go." The potentiometer value will be displayed. The new value must be between the X value and the Y value.
- Press "Save".

Possible errors

Error	Possible cause	Corrective measure
Value is outside tolerance.	Improper potentiometer setting.	Rotate the installed potentiometer 1x counterclockwise. Press "Go".
		Rotate the installed potentiometer 2x to the left. Press "Go".
		Remove the potentiometer incl. holder. Rotate the gear wheel until the markers match exactly. Reinstall the potentiometer. Press "Go".
		Ohmwert vom Schleifer aus in beide Richtungen gleichwertig einstellen.
The same value is always displayed.	Line break.	Check connection lines.
	Emergency shutdown button is depressed.	Pull out emergency shutdown button.
No value is displayed.	Other	Read out error messages in Eventlog Reader. Analyze and treat error messages according to trouble-shooting instructions.

Tab. 3 Startvalue Potentiometer Angulationsangle

Setting the reconstruction region

- Make sure no objects are in the beam path.
- Make sure the C-arm path is clear of obstacles.

- "Caution radiation".
- Press "Go".
- After the message " Determination of the Reconstruction Part 1" appears, press "o.k.".
- Press the left footswitch until the message "Move C-Arm in Position Angulation 180° Orbital -95°" appears.
- Press "o.k.".
- Press "Go".
- After the message "Determination of the Reconstruction Part 2" appears, press "o.k.".
- Press the left footswitch until a value appears on the monitor for Reconstruction Part 2.
- Press "Next." This automatically brings you back to the Home Menu.

Possible errors

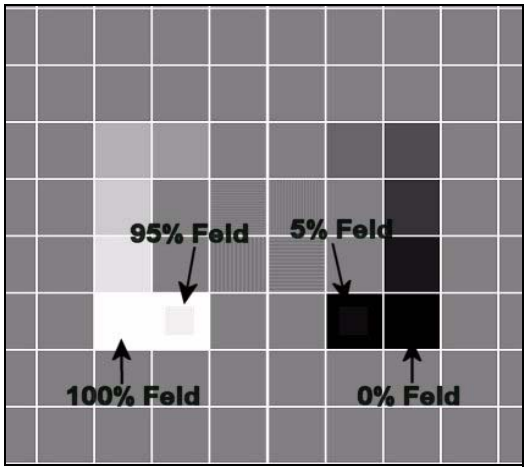
Error	Possible cause	Corrective measure
Error is displayed.	Object in the beam path.	Remove object.
	Defective potentiometer. The value must read 200 ohms.	Replace coupling unit.
Other	Other	Read out error messages in Eventlog Reader. Analyze and treat error messages according to troubleshooting instructions.

Tab. 4 Adjustment of the reconstruction region

Monitor SIMOMED N 100/120Hz, part number 11 02 628

NOTE	**Always perform the settings for the left monitor first (live image)!**

NOTE	**The part number 11 02 628 is indicated on the type plate of the monitor.**



Prerequisites

The ambient light sensor is to be dimmed.

Call up the MEMOSCOPE SMPTE test image

- Press "Ctrl" + "U" followed by "L" on the Memoscope keyboard.
  The SMPTE test image will appear on both monitors.

Brightness

- Set the brightness controller so that the 5% patches are distinguishable (visible) in the test image. Ideally, 1.5 to 2.5 Candela/m² should be set in field 0%.

Contrast

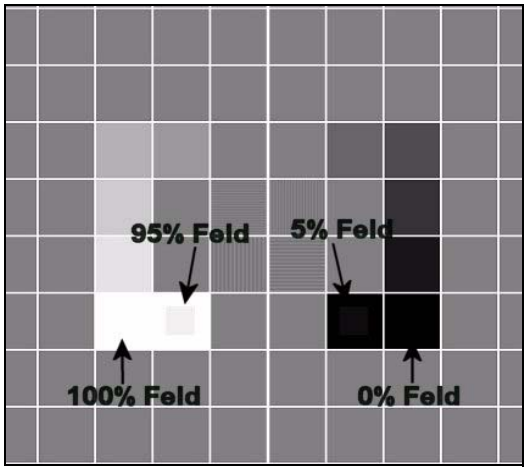
- Set the contrast of the left monitor so that the edges of the 100% field are sharp, i.e. there should be no blooming (overlapping into the brightest image areas).
  The target value is approx. 550 Cd/m² in the 100% field.

NOTE	**If the contrast cannot be set on the left monitor, check whether the contrast can be set on the monitor that is removed.** **If the contrast setting cannot be performed for either monitor, a new monitor should be ordered after consulting with the customer.**

Monitor Standard 100/120Hz, part number 30 64 581

NOTE	Always perform the settings for the left monitor first (live image)!

NOTE	The part number 30 64 581 is indicated on the type plate of the monitor.



Prerequisites

The ambient light sensor is to be dimmed.

Call up the MEMOSCOPE SMPTE test image

- Press "Ctrl" + "U" followed by "L" on the Memoscope keyboard.
  The SMPTE test image will appear on both monitors.

Brightness

- Set the brightness controller so that the 5% patches are distinguishable (visible) in the test image. Ideally, 1.5 to 2.5 Candela/m² should be set in field 0%.

Contrast

- Set the contrast of the left monitor so that the edges of the 100% field are sharp, i.e. there should be no blooming (overlapping into the brightest image areas).
  The target value is approx. 350 Cd/m² in the 100% field.

NOTE	If the contrast cannot be set on the left monitor, check whether the contrast can be set on the monitor that is removed. If the contrast setting cannot be performed for either monitor, a new monitor should be ordered after consulting with the customer.

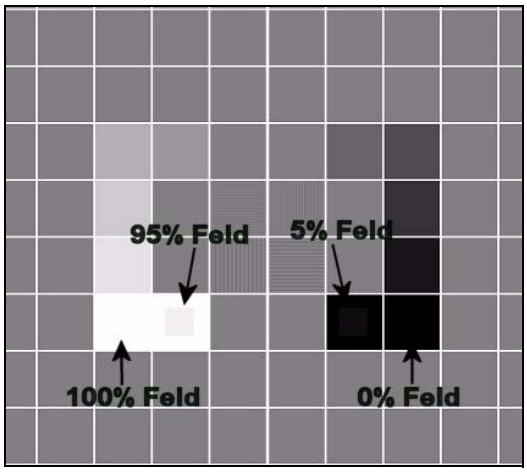
Monitor SIMOMED HM, part number 37 92 079

Prerequisites

The left monitor (live image) is already set!

The ambient light sensor is to be dimmed.

Call up the MEMOSCOPE SMPTE test image



- Press "Ctrl" + "U" simultaneously on the Memoscope keyboard. Then press the "L" key. The SMPTE test image will appear on both monitors.

Switch-over to 2D Mode

- Press "Ctrl-D" on the Memoscope keyboard; this switches over to 2D operation (if not already on).

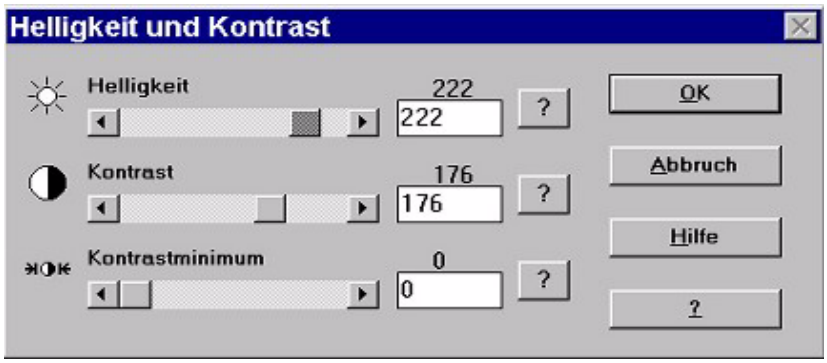
Installing and starting the SIMOMED HM service software

- Install the "SIMOMED HM - Service Software" included in the delivery volume of the HM monitor (right monitor) on the service PC (if it is not already installed on the service PC).
- Using the serial cable (99 00 440 RE999), connect the service PC to the HM Simomed monitor (right monitor) (the interface for the HM monitor is located on the lower left, behind the cover).
- Start the SIMOMED HM service software on the service PC.
- Log into the monitor using the password "....."; the menu bar is displayed.
- In the menu, select "Configuration".
- Select "Block sensor-touch keyboard".

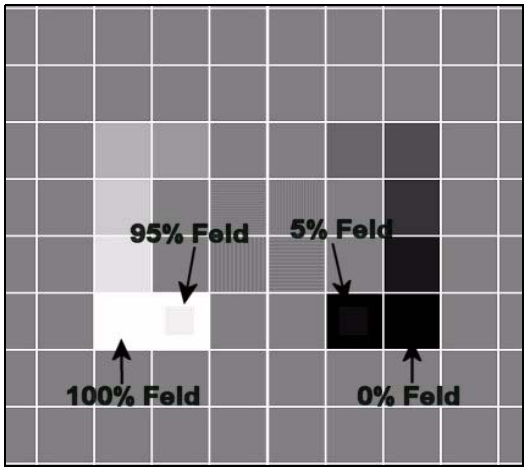
- Check "Off" for all of the possible settings.
- Select "OK".

Brightness and contrast

- The part number 37 92 079 is indicated on the type plate of the monitor.



- In the menu, select "Configuration".
- Select "Brightness and Contrast".
- Set the contrast minimum to "0".

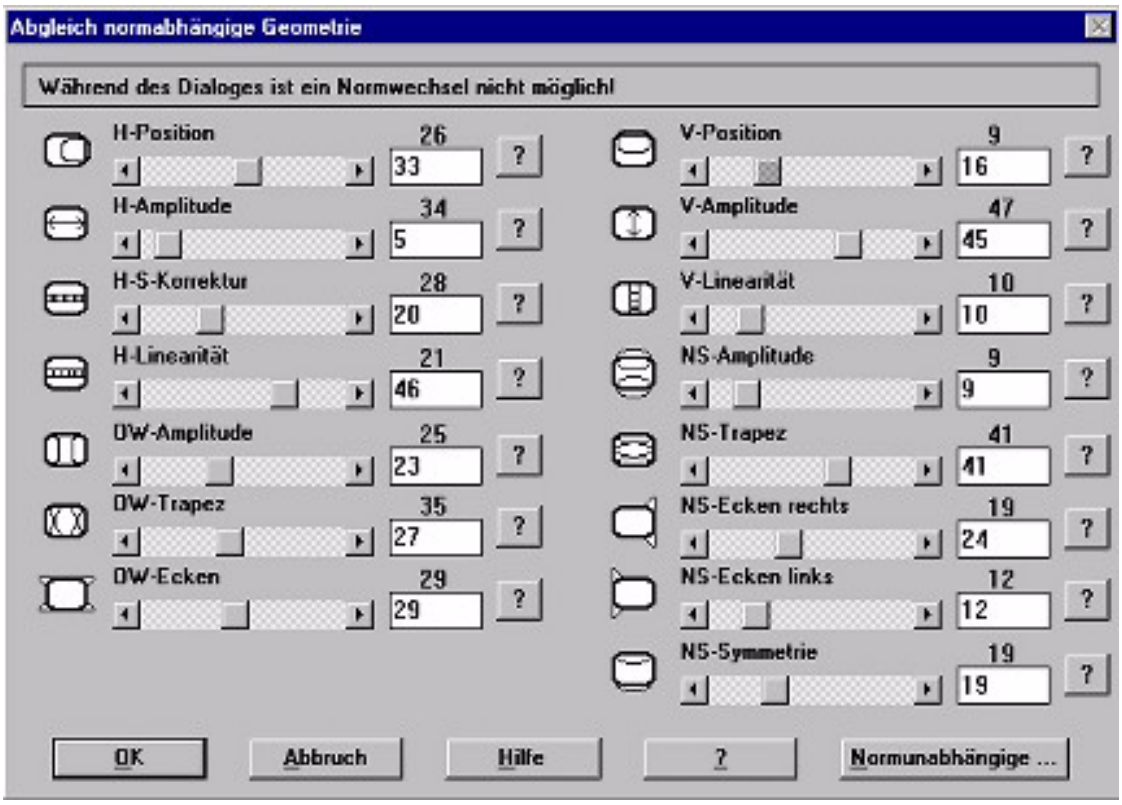


- In the 0% field, set the brightness to 2-3 candela/m².
- Set the contrast of the HM monitor so that the brightness of the displayed image appears subjectively identical to the left monitor (live image).
- If required, repeat the setting.
- The 5% and 95% fields must remain visually distinguishable.

NOTE **You need not pay attention to the geometry when setting brightness and contrast.**

- Select "OK".

Monitor geometry



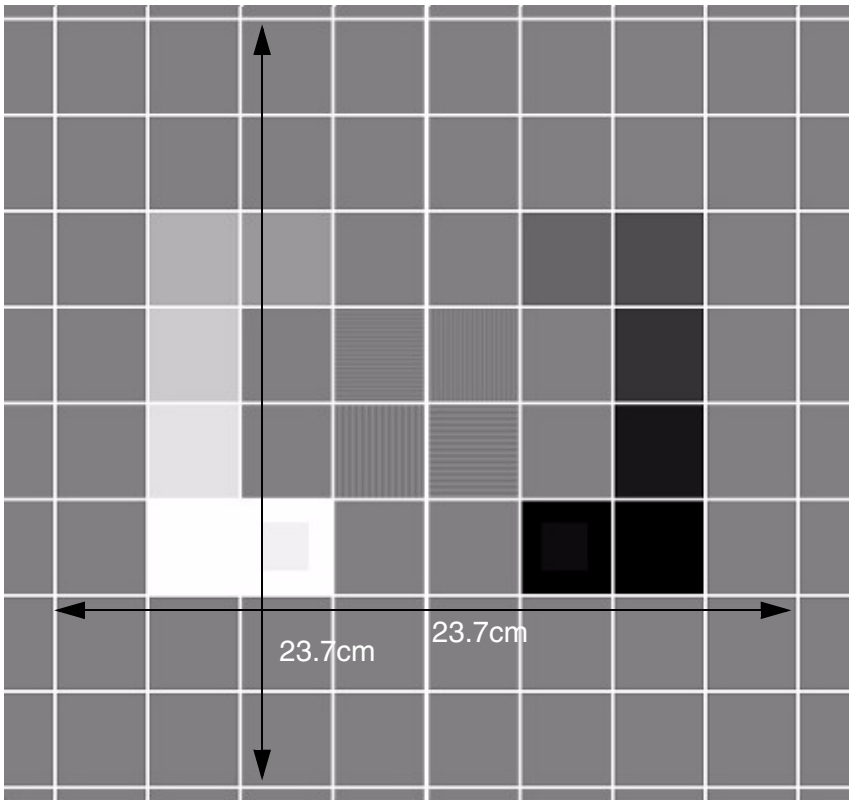
- In the menu, select "Balance".
- Select "Geometry".

Pre-settings

As a first step, the following pre-settings must be made:

- H-S Correction --> 20
- H-Linearity --> 46
- OW-Amplitude --> 23
- OW-Trapezoid --> 27
- OW-Angles --> 29
- Image width coarse --> if present, this should be set to 1
- V-Linearity --> 10
- NS-Amplitude --> 9
- NS-Trapezoid --> 41
- NS-Angle right --> 24
- NS-Angle left --> 12
- NS-Symmetry --> 19

Optimum setting



- Set the monitor according to the image displayed above. Pay special attention to the square patches in the test image.
  The horizontal length of all 8 test patches should be the same as the vertical ones. (The reference value is 23.7 cm or 9.3'' measured on the monitor).
- Center the image horizontally and vertically with the following controllers:
  - H-Amplitude
  - H-Position
  - V-Position
  - V-Amplitude

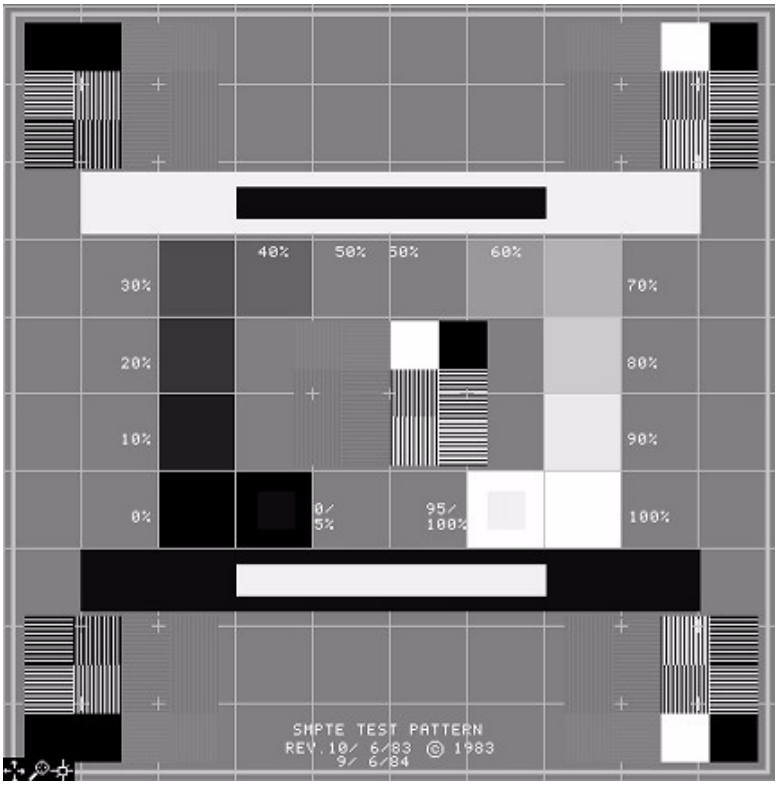
If present, linearity errors (individual boxes are not square) or other deviations should be corrected using the appropriate controllers.

- H-S Correction
- H-Linearity
- OW-Amplitude
- OW-Trapezoid
- OW-Angles
- V-Linearity
- NS-Amplitude

- NS-Trapezoid
- NS-Angle right
- NS-Angle left
- NS-Symmetry

Once the picture is set according to the displayed image:

- Select "OK".
- Press "Ctrl-D" on the Memoscope keyboard to switch to 3D mode.
- Using Syngo, select "Service Patient".



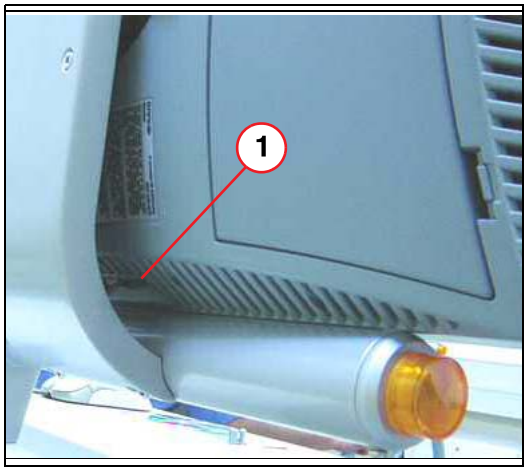
- Select the "1K SMPTE test image". There should be no distortion or non-linearity present.

NOTE	**If distortion or non-linearity is present, repeat the section on ”HM monitor geometry”.**

- Shut down the service software.
- Click "Yes" in the dialog box.
- Save the settings on the Simomed HM diskette under the file name "HM.dat".

TFT display BARCO MVG 1318, part number 80 79 530

Operation OSD menu



NOTE	All required adjustments are performed via the OSD menus.

Position Control Wheel

- The control wheel is located at the rear of the TFT display. See above figure /1.

Call up the OSD main menu:

- Turn the control wheel (do not press the wheel).
  The OSD main menu is indicated on the top left.

In the ”Scroll” menu:

- Turn the control wheel to change between menus.
  The currently selected menu is indicated visually highlighted.

Selection of a menu:

- Select a menu by pressing the control wheel. The relevant submenu will then be indicated.

Quitting the OSD menu or a submenu

- Select ”Exit” to exit the current screen or the OSD menu.

Saving the settings

- If any settings were modified in the OSD menu, select Exit => Exit ... to change to the ”Save Changes” window.
- Select ”Yes” and press the control wheel to accept the modifications.

Switching off / on:

- Call up OSD (i.e. press the control wheel)
- Select the menu as follows:

- Switch off (Standby mode) by selecting the ”Stand by” menu (i.e. by pressing the control wheel).

OSD menu structure

OSD menu	Autoset	Full Autoset	see section ”Setting”
		Automatic Geometry	n.a.
		Automatic Phase	n.a.
		Automatic Gain	n.a.
		EXIT	quitting the menu
	Video Contrast	Adjustment of contrast (signal limitation)	see section ”Setting”
	Video Brightness	Adjustment of brightness	see section ”Setting”
	Luminance	Adjustment of max. contrast (backlight).	see section ”Setting”
	Adjustments	Geometry	adjustment of geometry, only required if height / position are incorrectly set.
		Phase => Frequency	see section ”Setting”
		Man Phase adj	see section ”Setting”
	Input Selection	Selection : Auto	standard
	Settings	Power LED / DPMS	standard
		Ambient Light Compensation	OFF see section ”Setting”
	Preset	Gamma with respect to input signal	standard
	Information	TFT monitor data	SW / operating hours ..
	EXIT	Quitting the OSD menu	

Note on the checks of the automatic videotiming recognition

NOTE

Two different videotimings are present on the left TFT display (live image).

Three different videotimings are present on the right TFT display:

1. Standard Timing (left and right display):
Monitor cart and basic unit are connected to each other;
the synchronization is realized by the video camera.

2. Timing stand-alone operation, monitor cart (left and right display):
Monitor cart and basic unit are not connected to each other;
the Memoscope is synchronized internally.

3. Timing 3D reconstruction (only right display):
3D reconstruction PC supplies the video signal.

The automatic videotiming recognition of the TFT display needs to be checked with all present videotimings.

The videotiming is automatically recognized by the TFT display. The following checks need to be performed with different videotimings.

NOTE

If the automatic recognition of one or several videotimings does not lead to the expected results, you need to adjust the TFT display manually. Use the replacement instructions of the TFT display TD00-000.841.17... for this.
(CS-Intranet path: For Service - SP - Surgery - SIREMOBIL Iso-C - CB-DOC - Service - Monochrome Display).

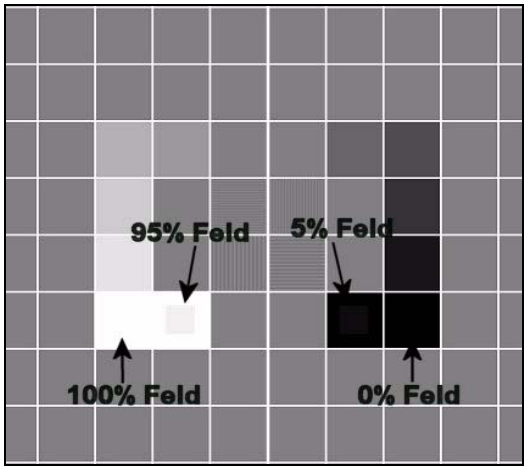
Videotiming check for standard timing:

The monitor cart and the basic unit are connected to each other.
The plug connection X10 is plugged.
The system is ready for operating.
Both TFT displays need to be checked.

- Call up the ”Memoscope User Setup”. Press simultaneously the keys "CTRL" + "U" on the Memoscope keyboard.

Select the ”L” menu. The Memoscope SMPTE test image is indicated on both TFT displays.

NOTE	**If the 3D PC image is indicated on the right monitor , press simultaneously the keys "CTRL" + "D" on the Memoscope keyboard to switch over to the Memoscope video signal.**



Visual check of the geometry

- The image position and the aspect ration need to be represented correctly.
  The Memoscope SMPTE test image is neither cut nor represented too small.

Visual check of resolution

- In the Memoscope SMPTE test image in the center of the image shows clearly the fine vertical and horizontal lines.

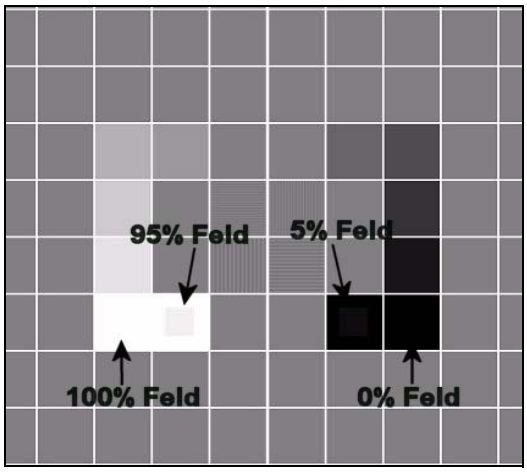
Visual check of shadings, artifacts and moiré patterns

- The gray-scale values are indicated without shadings.
- Neither artifacts nor moiré patterns are recognizable.

Manual setting of brightness and contrast

On the Memoscope, select LUT 1 for both video outputs.

Call up the Memoscope SMPTE test image (press first the keys "CTRL" + "U", then "L").



Both monitors show the Memoscope SMPTE test image.

Enable the OSD menu on the TFT display.

Select the OSD menu "Settings", submenu "Ambient Light Compensation" and disable the ambient light sensor (X)

Select the OSD menu ”Luminance”.

In the 100% field, set a luminance of 400 cd/m² +10 /-30 cd/m².

Select the OSD menu "Video Brightness", submenu "Man Brightness adj".

In the 0% field, set a luminance of 0.9 cd/m² +/- 0.1 cd/m² .

Select the OSD menu "Video Contrast", submenu "Man Contrast adj".

Select settings which are ensuring that all gray-scale values and – in addition – the 5% and 95% fields are visible.

Select the OSD menu "Settings", submenu "Ambient Light Compensation" and re-enable the ambient light sensor. (V)

Dim the ambient light sensor.

Dimming the ambient light sensor must result in the following luminance values:

In the 0% field: 0.5 cd/m² +/- 0.2 cd/m²

In the 100% field: 200 cd/m² +/- 30cd/m².

In he next step, save the settings (select "Exit" until the screen "Save Changes" appears.

Then, save the modifications with "Yes".

Perform the manual setting of the brightness and contrast of the second TFT display.

Visual check of the gray-scale graduations after the manual setting

On the Memoscope, select LUT 1 for both video outputs.

- The 5% and 95% fields must be clearly recognizable.
- Both TFT displays show an image with subjectively the same brightness.

Checks during timing in ”Stand-Alone” mode:

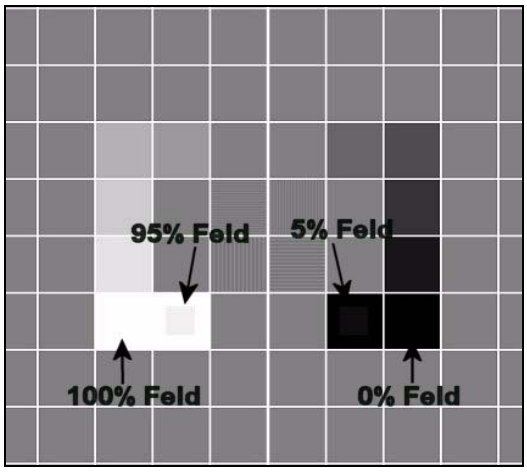
The monitor cart and the basic unit are **not** connected to each other.
The plug connection X10 is **not** plugged.
The monitor cart and its components are ready for operating.
Both TFT displays need to be checked.

- Call up the ”Memoscope User Setup”. Press simultaneously the keys "CTRL" + "U" on the Memoscope keyboard.

Select the ”L” menu. The Memoscope SMPTE test image is indicated on both TFT displays.

NOTE	**If the 3D PC image is indicated on the right monitor, press simultaneously the keys "CTRL" + "D" on the Memoscope keyboard to switch over to the Memoscope video signal.**

On the Memoscope, select LUT 1 for both video outputs.



Visual check of the geometry

- The image position and the aspect ration need to be represented correctly. The Memoscope SMPTE test image is neither cut nor represented too small.

Visual check of resolution

- In the Memoscope SMPTE test image in the center of the image shows clearly the fine vertical and horizontal lines.

Visual check of shadings, artifacts and moiré patterns

- The gray-scale values are indicated without shadings.
- Neither artifacts nor moiré patterns are recognizable.

Visual check of the gray-scale graduations

- The 5% and 95% fields must be clearly recognizable.
- Both TFT displays show an image with subjectively the same brightness.

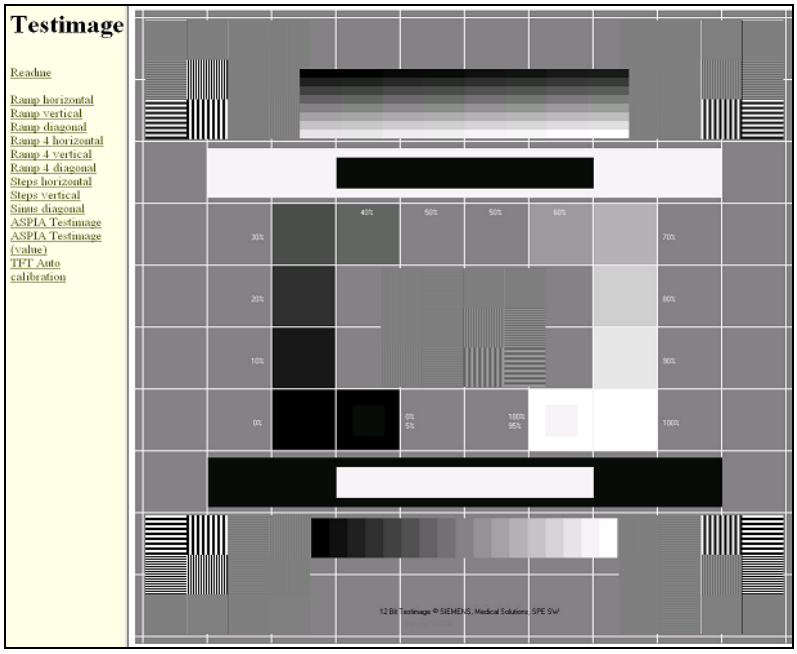
NOTE	**If you detect deviations of the brightness and contrast of the displays, perform the steps described in section "Manual setting of the brightness and contrast".**

Check of the timing 3D reconstruction

The monitor cart and the basic unit are connected to each other.
The plug connection X10 is plugged.
The monitor cart and its components are ready for operating.
The 3D PC has correctly started up and is ready for operating.
The right TFT display needs to be checked.

- Press simultaneously the keys ”CTRL" + "D" on the Memoscope keyboard to switch over to 3D Mode. The image of the 3D PC is indicated on the right display.
- On the 3D PC, select the menu "Options" - "Local Service".
- Call up the "Utilities" menu item.
- In the ”dropdown list ”Source”, select "Escape to OS".
- If not automatically pre-selected under "Command:" select "NT Command Interpreter".
- Insert the floppy disk "HTML Testimages VA00A", part number 75 58 567, into the diskette drive.
- In the "Parameter" field, enter and start the command "a:\main.htm".

Select "ASPIA Testimage" and use this test image to check the settings.



Visual check of the geometry

- The image position and the aspect ration need to be represented correctly. The ASPIA test image is neither cut nor represented too small.

Visual check of resolution

- In the center of the image and in the 4 corners of the ASPIA test image, the fine vertical and horizontal lines are clearly visible.

Visual check of shadings, artifacts and moiré patterns

- The gray-scale values are indicated without shadings.
- Neither artifacts nor moiré patterns are recognizable.

Visual check of the gray-scale graduations

- The 5% and 95% fields must be clearly recognizable.

NOTE

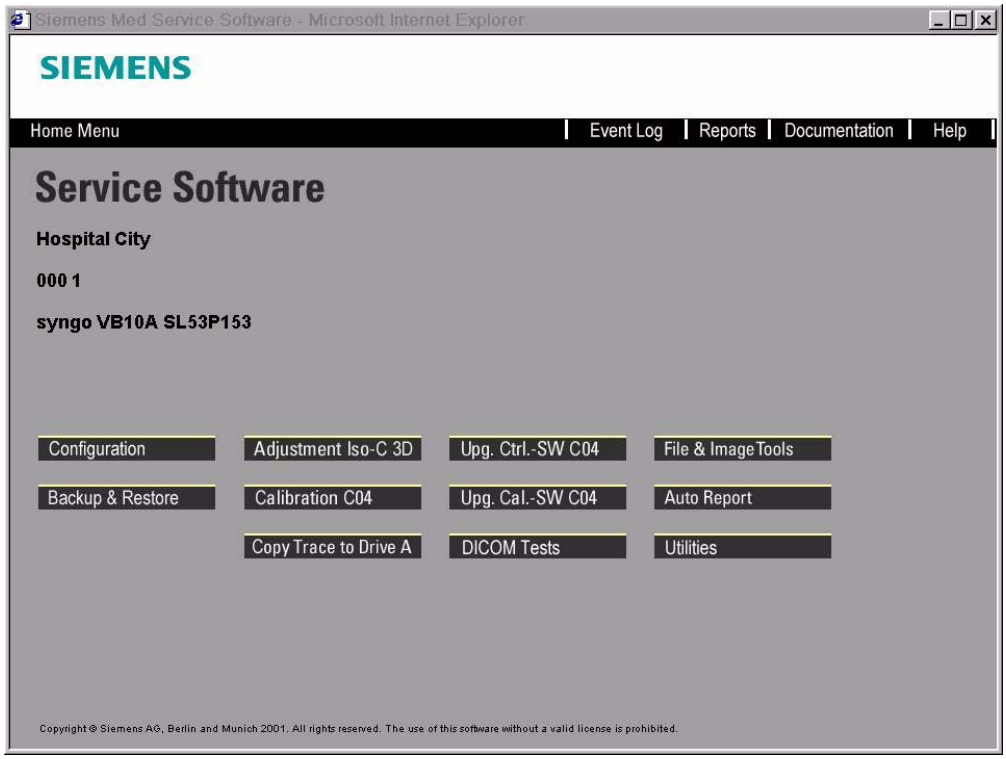
If the 5% or 95% fields are only insufficiently recognizable, the brightness and the contrast can be corrected.
(Select the OSD menu "Video Brightness", submenu "Man Brightness adj"
and the OSD menu "Video Contrast", submenu "Man Contrast adj").
The settings are saved for every individual video mode.

Do not modify the backlight setting (OSD menu "Luminance"), since this would also affect
other video modes (default setting)!

Select “**Options>>Local Service**” in the window menu header.

- Enter the service key (6 characters in 2nd screen) in the Syngo SW screen that appears.
- Confirm the screen with **“ok”**.

The Service Home menu appears.

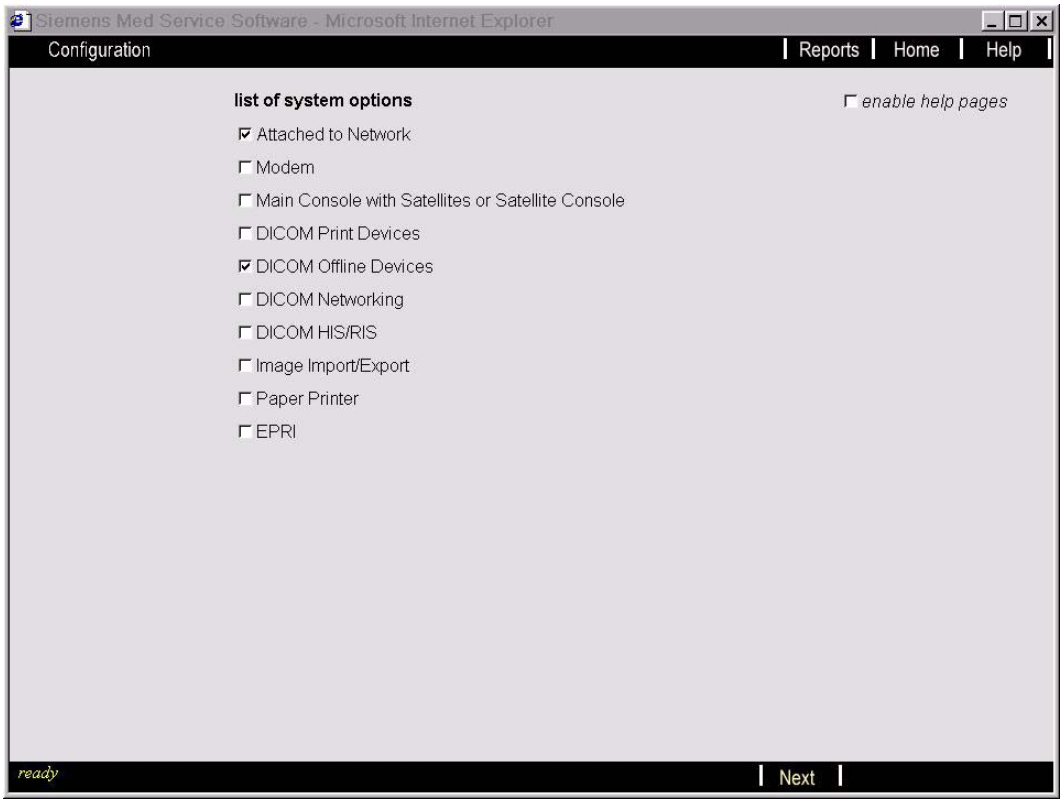


- Select **"Configuration"**.

NOTICE

If problems occur during the following configurations, tests can be initiated to uncover possible causes using the "DICOM Tests", which can be accessed in the above Home menu.

The Selection menu appears.



- In the **"list of system options"**, the check boxes corresponding to the following table must be selected accordingly.

Attached to network	used
Modem	**Not** used
Satellite Console	**Not** used
DICOM print	Should be selected if a hardcopy camera is used in the network
DICOM offline	no change
DICOM networking	Should be selected if DICOM networking is used in the network
DICOM HIS/RIS	Should be selected if DICOM HIS/RIS is used in the network
Image import/export	no change
Paper printer	**Not** used
EPRI	**Not** used

- In the footer: select **"Next"**.

NOTICE

During initial installation, go through the screens in sequence. With later supplements, the configuration steps that already have entries can be skipped. However, these program screens must also be checked or changed to reflect the on-site conditions.

The sequence of configuration steps should take place according to the structure on the left side of the screens. To do this, each of the underlined chapter names must be clicked.

All data should be entered as described in the configuration table. In particular, upper and lower case conventions should be observed!

The help text is available before each config screen. Advancing to the next screen is possible by selecting the ">" symbol in the footer.
Additional Online Help can be obtained by pressing the "Help" button in the menu header.

NOTICE

If the configuration is exited, this must ALWAYS be done by selecting the "Home" button. The following illustration shows the corresponding message. Otherwise the changes will NOT take effect.

Microsoft Internet Explorer
The change is only valid and correctly displayed after reboot!
Use only home button of service ui to start shutdown and make new hostname valid.
OK

Customer and site

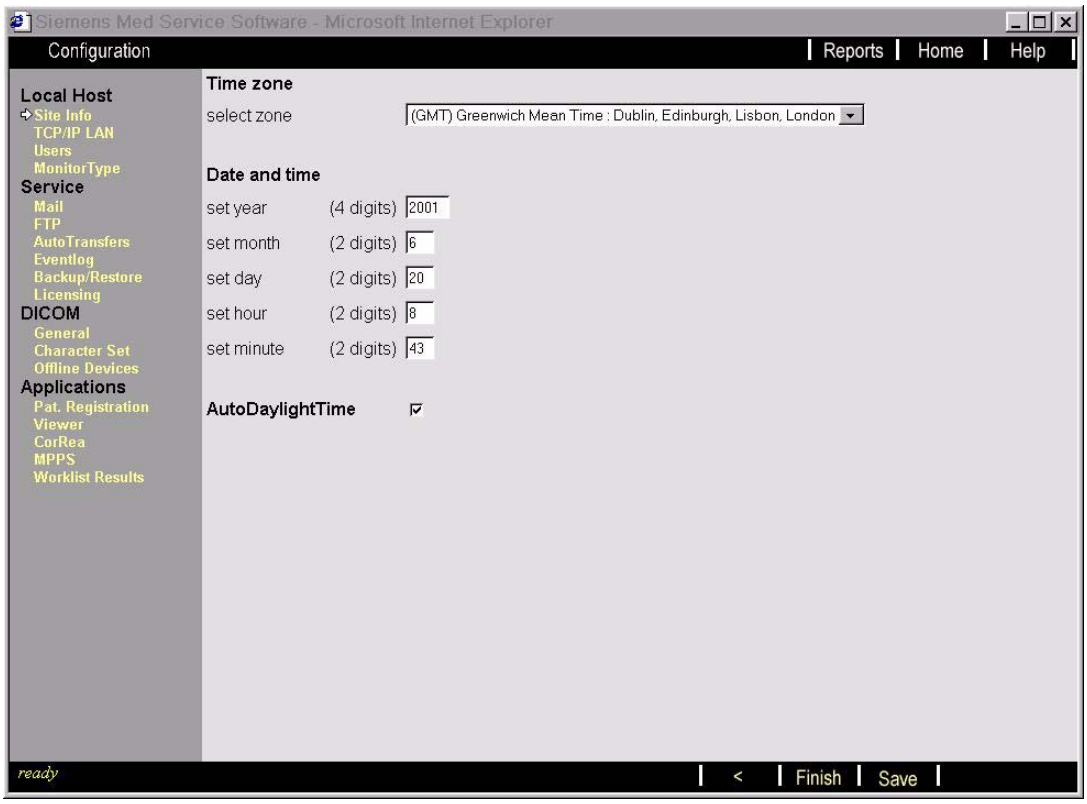
- The **customer and site platform** allows you to enter some general system and site-specific information for easy identification of your machine.
- Select customer and site in the selection menu under **local host**.
- The next screen appears by clicking ">" in the footer. The pages that appear provide an on-line description about the steps that then follow.

- Fill in the boxes accordingly.
  - **Handed over:** time at which handover to the customer takes place
  - **Customer Name:** should identify the station
  - **Customer Id:** enter the customer number
  - **Product Name:** SIREMOBIL Iso-C 3D
  - **Product No:** is not used and is filled in with "0"
  - **Order No:** SAP order number
  - **Serial No:** Serial Number of the software package
    (this entry indicates the SIREMOBIL Iso-C 3D and is important for the function)
  - **Maintenance Unit:** ot
    (to indicate this System as SIREMOBIL Iso-C 3D, this entry is important for the function)
  - **Hospital:** name of the clinic/hospital
  - **Street:** street on which the clinic/hospital is located
  - **Street No:** address

- **Zip Code:** postal code
- **Phone No:** telephone number of the clinic/hospital
- **City:** name of the city/town
- **District:** name of the district in which the clinic/hospital is located, corresponding to the structure in the country organization
- **Country:** country

Local host

Site info



NOTICE

The following work steps describe integration of the SIREMOBIL Iso-C 3D into an existing network.

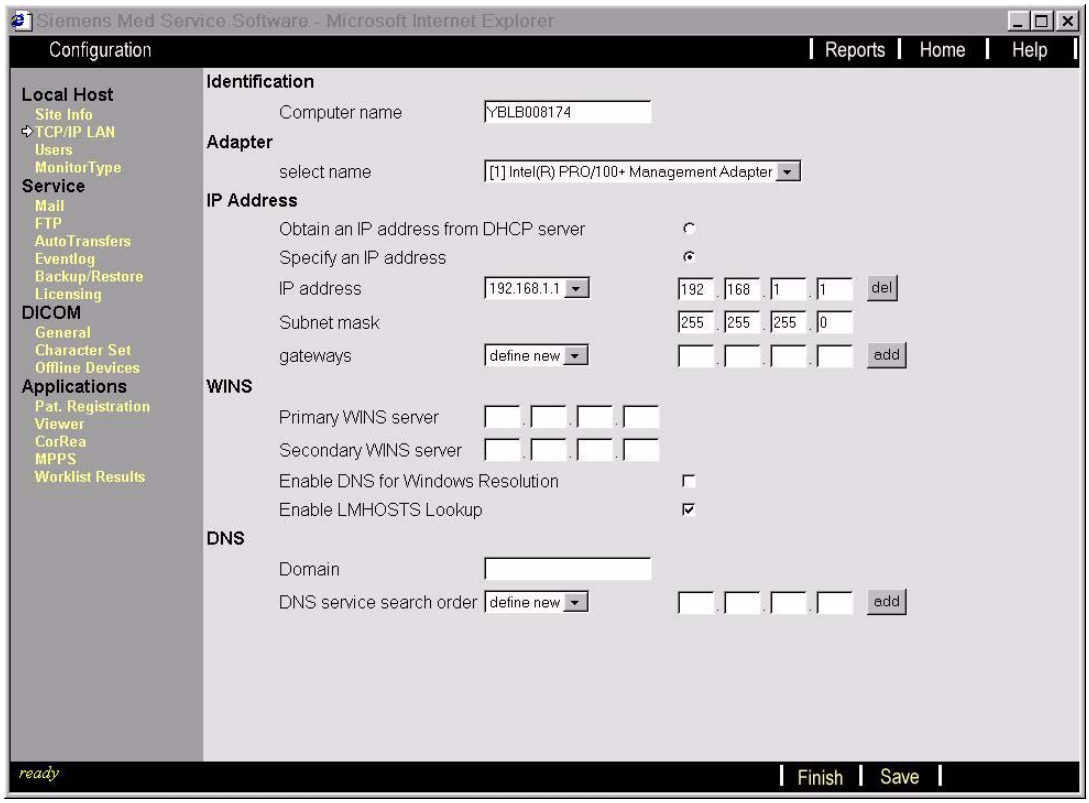
After finishing the complete configuration, it is necessary to configure SIREMOBIL Iso-C 3D at the corresponding modalities (MagicView, Fluorospot, etc.).
The required steps are described in the instructions for the particular modalities.
To simplify this process, fill out the accompanying data sheet at the end of these instructions and send it as a copy(-ies) to the affected modalities. This page contains all relevant data to configure SIREMOBIL Iso-C 3D at these modalities.

TCP/IP LAN settings

The **TCP/IP LAN platform** allows you to configure the local networking properties of your system. Skip this section if your system works completely as a stand-alone system, the default values provided will do in that case.

- When selected, the installation procedure runs automatically to the point TCP/IP LAN. If there are later additions and changes, manually select the appropriate point in the selection menu, on the left under **local host**.

- The next screen appears by clicking “>“in the footer. The pages that appear provide an online description about the steps that follow.



- Select the **“Computer name“** in the configuration table and enter it.

NOTICE

The computer name (= host name) should be changed only once, at the beginning of the configuration. If the computer name is changed later there can be problems.

NOTICE

The computer name (host name) must not be longer than 10 characters in length. Please use only lowercase letters if possible for the host name.

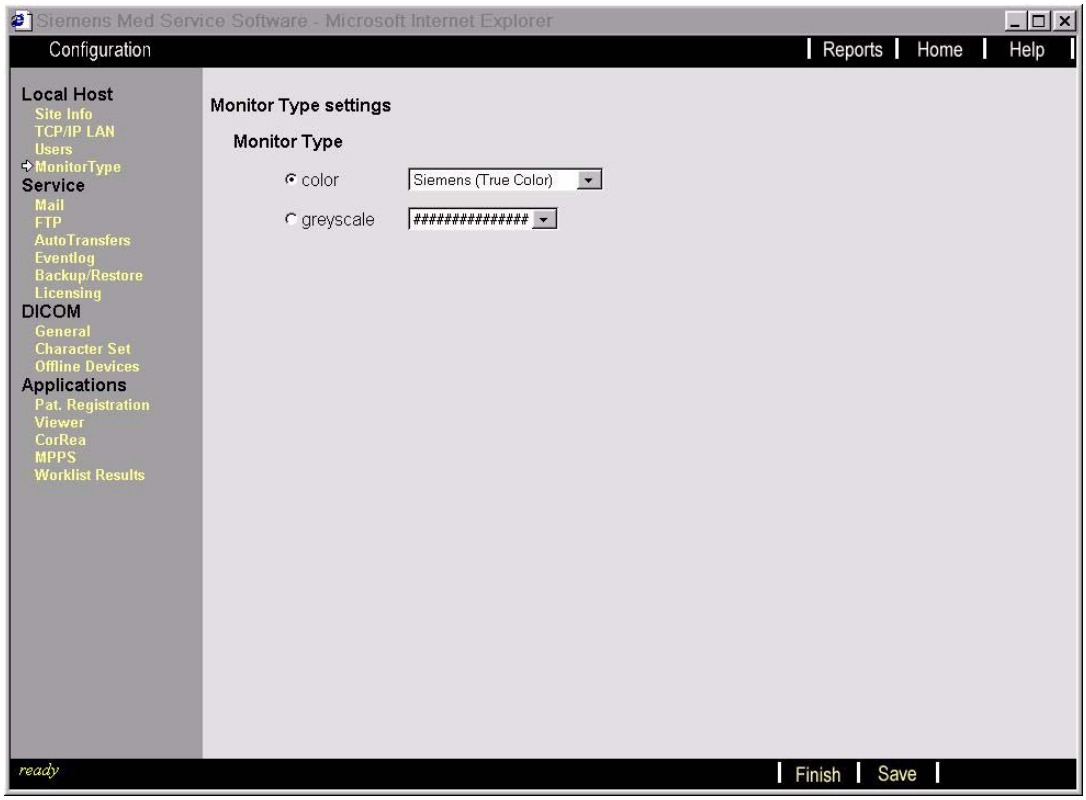
- "Obtain an IP address from DHCP server " must not be selected.

User settings

The user settings are not changed.

Users

Monitor type

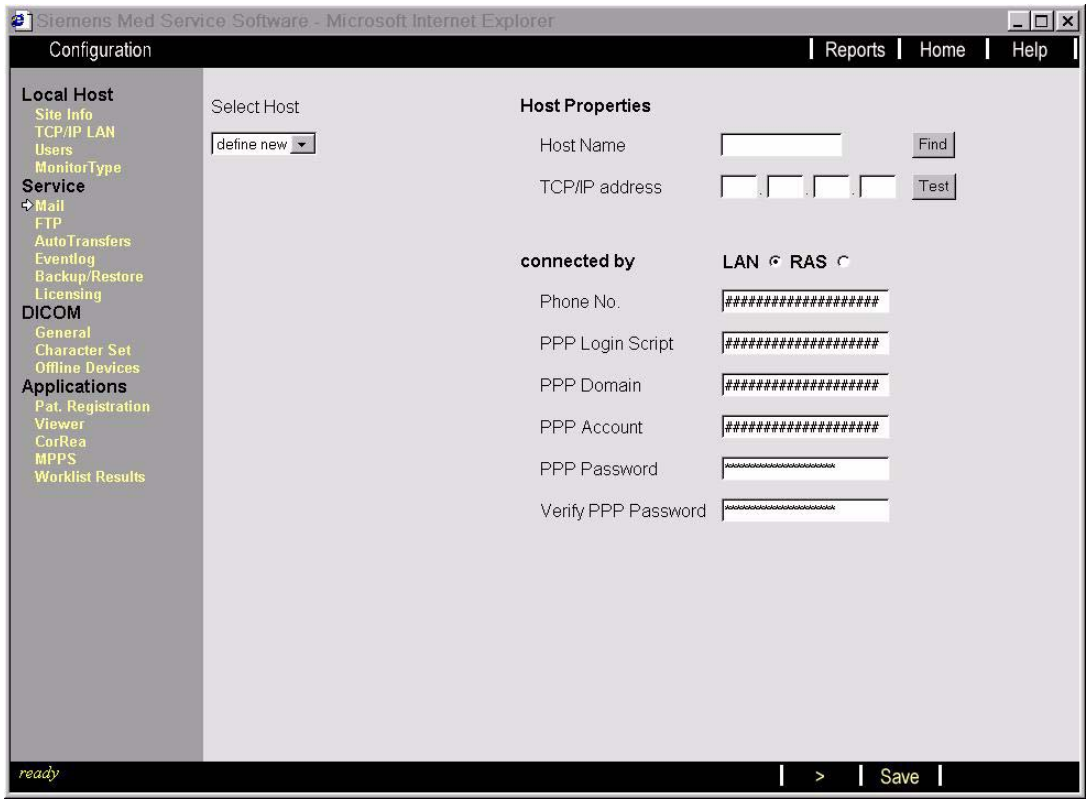


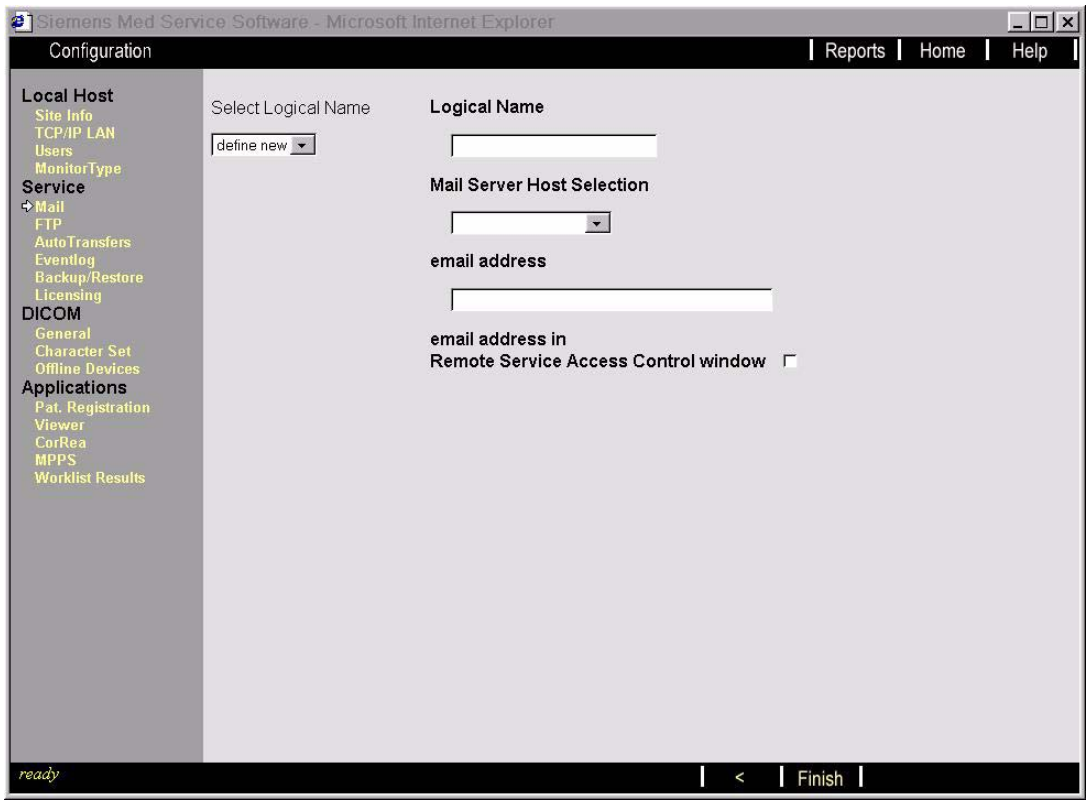
- Select "color".
- Select "Siemens (True Color").
- Select "save".

Service

Mail

- Not used.


Siemens Med Service Software - Microsoft Internet Explorer
Configuration
Reports
Home
Help
Local Host
Site Info
TCP/IP LAN
Users
MonitorType
Service
Mail
FTP
AutoTransfers
Eventlog
Backup/Restore
Licensing
DICOM
General
Character Set
Offline Devices
Applications
Pat. Registration
Viewer
CorRea
MPPS
Worklist Results
Select Host
define new
Host Properties
Host Name
Find
TCP/IP address
Test
connected by
LAN
RAS
Phone No.
PPP Login Script
PPP Domain
PPP Account
PPP Password
Verify PPP Password
ready
>
Save


Siemens Med Service Software - Microsoft Internet Explorer
Configuration
Reports
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Site Info
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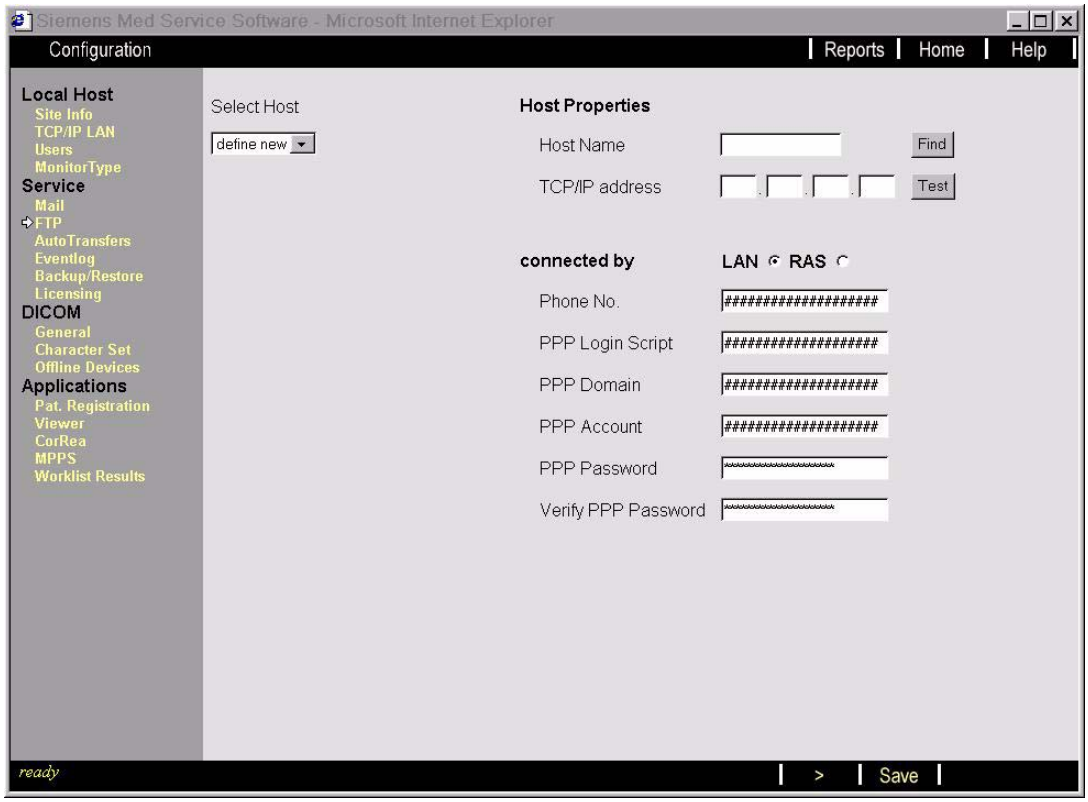
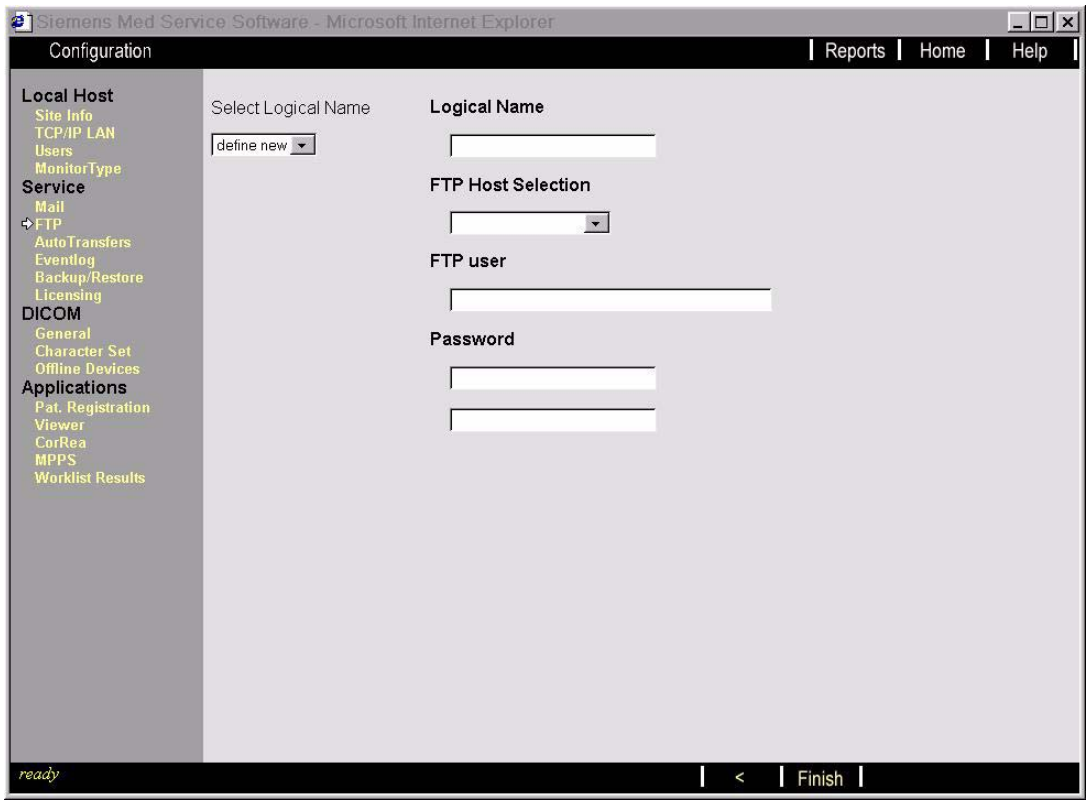
MonitorType
Service
Mail
FTP
AutoTransfers
Eventlog
Backup/Restore
Licensing
DICOM
General
Character Set
Offline Devices
Applications
Pat. Registration
Viewer
CorRea
MPPS
Worklist Results
Select Logical Name
define new
Logical Name
Mail Server Host Selection
email address
email address in
Remote Service Access Control window
ready
<
Finish

FTP

- Not used.


Siemens Med Service Software - Microsoft Internet Explorer
Configuration
Reports
Home
Help
Local Host
Site Info
TCP/IP LAN
Users
MonitorType
Service
Mail
FTP
AutoTransfers
Eventlog
Backup/Restore
Licensing
DICOM
General
Character Set
Offline Devices
Applications
Pat. Registration
Viewer
CorRea
MPPS
Worklist Results
Select Host
define new
Host Properties
Host Name
Find
TCP/IP address
Test
connected by
LAN
RAS
Phone No.
PPP Login Script
PPP Domain
PPP Account
PPP Password
Verify PPP Password
ready
>
Save


Siemens Med Service Software - Microsoft Internet Explorer
Configuration
Reports
Home
Help
Local Host
Site Info
TCP/IP LAN
Users
MonitorType
Service
Mail
FTP
AutoTransfers
Eventlog
Backup/Restore
Licensing
DICOM
General
Character Set
Offline Devices
Applications
Pat. Registration
Viewer
CorRea
MPPS
Worklist Results
Select Logical Name
define new
Logical Name
FTP Host Selection
FTP user
Password
ready
<
Finish

Autotransfer

- Not changed.

Eventlog settings

The installation procedure runs automatically to the point Eventlog. If there are later additions and changes, manually select the appropriate point in the selection menu on the left under **service**.

- The next screen appears by clicking ">"in the footer. The pages that appear provide an online description about the steps that follow.

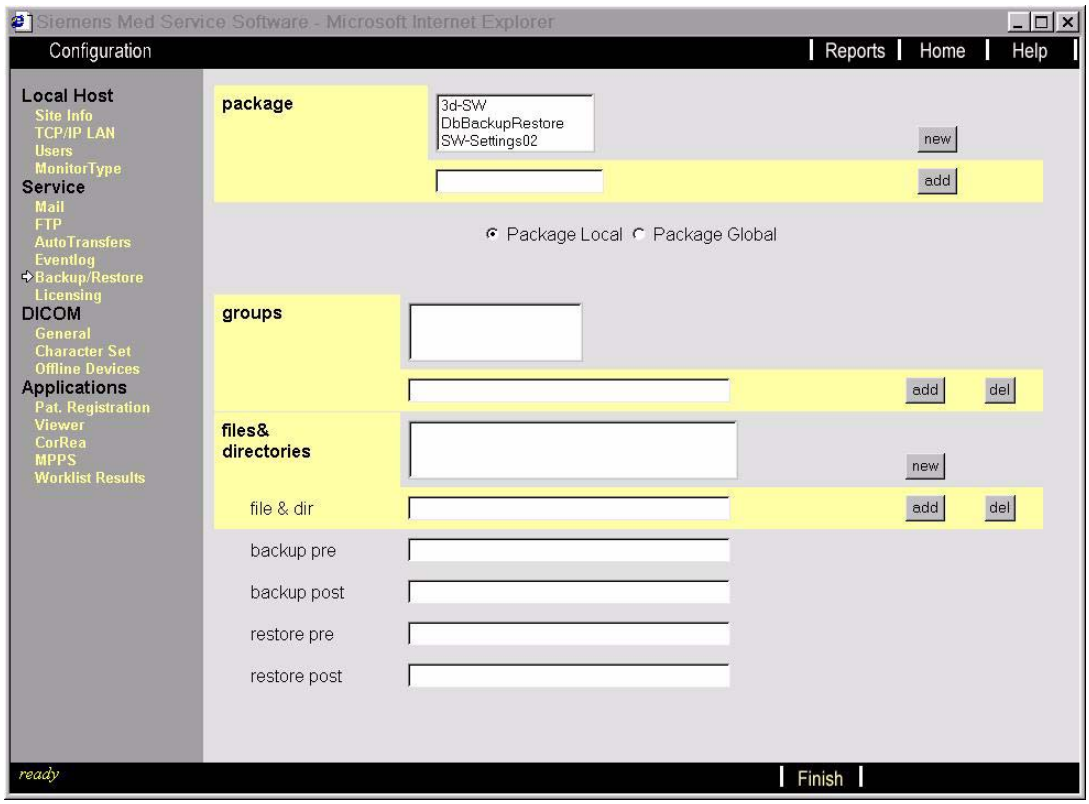
The Eventlog function allows customizing of the Event Log user interface of your Service Software. Specify whether:
only service-relevant messages should be logged
only service-relevant messages should be displayed in the Event Log window (with all errors being logged) and the sequence number should be displayed.

- Unless otherwise specified, select all 3 check boxes.
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Select **"Next or Finish"** in the menu footer.

Backup & Restore settings

The installation procedure runs automatically up to the point backup & restore. If there are later additions and changes, manually select the appropriate point in the selection menu, on the left under **service**.

- The next screen appears by clicking “**>**“in the footer. The pages that appear provide an online description about the steps that follow.



- Backup/Restore allows you to specify the data to be saved and restored when executing the Backup & Restore function of your Service Software.
- The preset packages are sufficient here and should therefore not be changed.
- Select **“Next or Finish”** in the menu footer.

Licensing

The installation procedure runs automatically up to the point Licensing. If there are later additions or changes, manually select the appropriate point in the selection menu, on the left under **service**.

- The next screen appears by clicking “**>**“in the footer. The pages that appear provide an online description about the steps that follow.

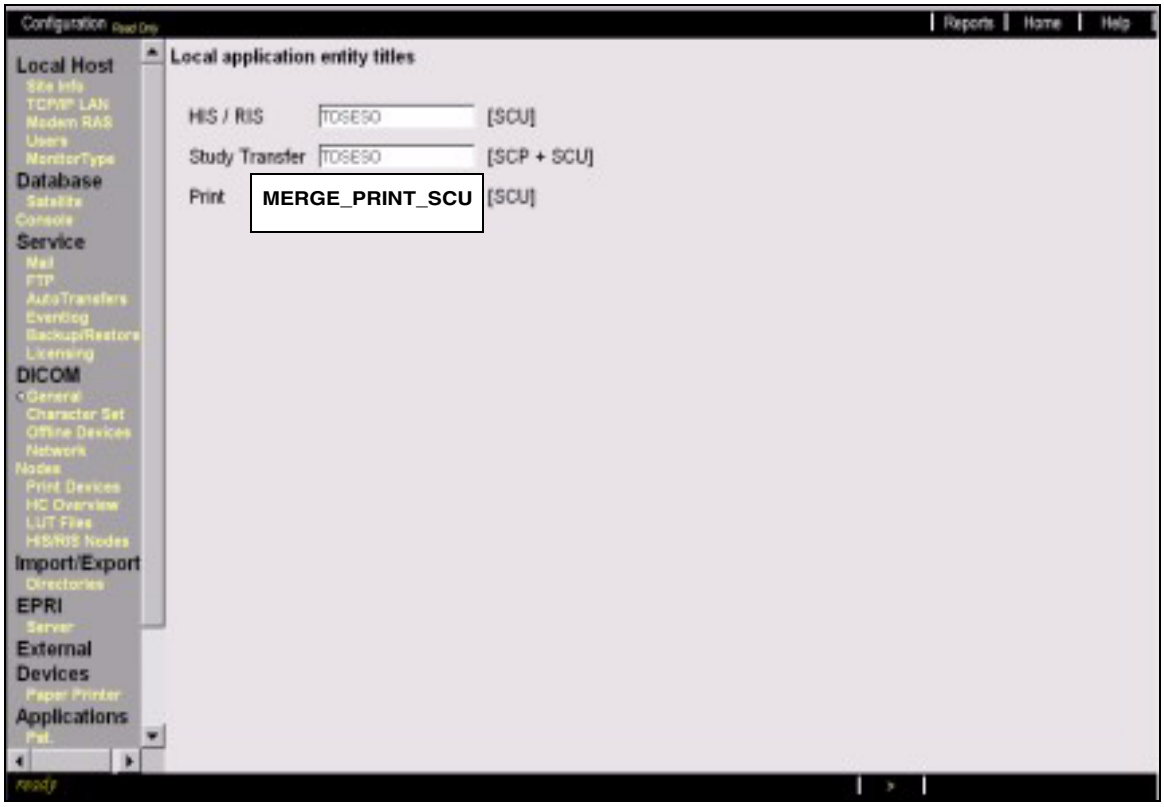
- Insert the diskette with the license file.
- Use the **"Browse..."** button in the configuration window to select < **a:\.....license.dat** >.
- Click **"Import Licensefile".**
- Select **"Save"** in the footer to save the values that were entered.
- Acknowledge the message **“...successfully saved”** with “**ok**”.
- Select **“Next or Finish”** in the menu footer.
- Remove the diskette.

DICOM

General

The installation procedure runs automatically up to the point local AE. If there are later additions or changes, manually select the appropriate point in the selection menu (see Chapter 9).

The next screen appears by clicking “**>**“in the footer. The pages that appear provide an online description about the steps that follow.



- Take the data from the configuration table. The AET names must be unique in the network. They will be automatically set by changing the host name in the TCP/IP LAN settings dialog.

NOTICE	**All AEs should start with uppercase letters. This is required for the functionality of the DICOM tests (e.g. verification).**

- Leave HIS/RIS unchanged, since it is not relevant.
- Enter Study Transfer (e.g. AN_SIREMOBIL Iso-C 3D) or if not otherwise defined take over the title given by the system.
- Enter Print AET or MERGE_PRINT_SCU.

NOTICE

The Print AET is required to distinguish between the different modalities sending images to the printer.
Thus the correct LUT can be selected.

If the wrong AET is configured a default LUT might be selected in the printer, which has a big impact on the image quality!

- Select **"Save"** in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Select **"Next or Finish"** in the menu footer.

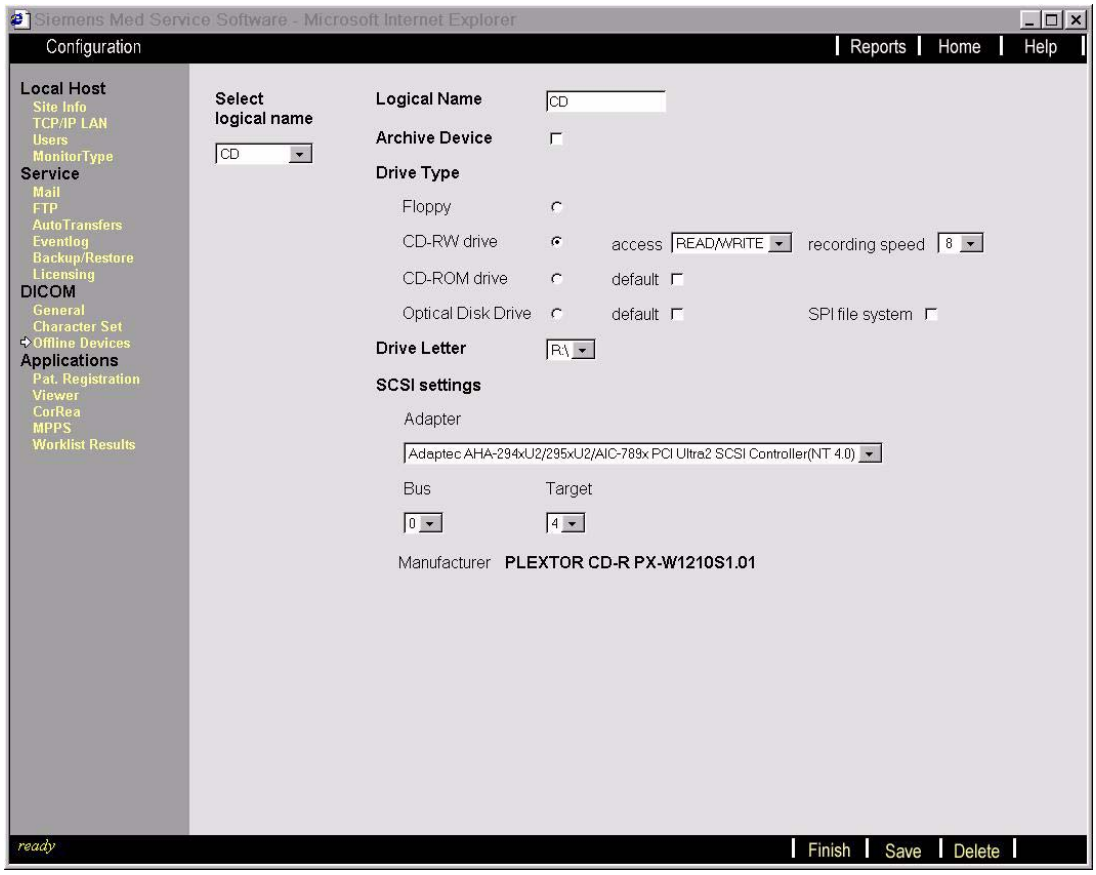
Character settings

- The installation procedure runs automatically up to the point character set.
- These settings must not be changed.

Offline device settings

When selected, the installation procedure runs automatically up to the point offline devices. If there are later additions or changes, manually select the appropriate point in the selection menu, on the left under **DICOM**.

- The next screen appears by clicking ">"in the footer. The pages that appear provide an online description about the steps that follow.



- In this section, you define the Setting of DICOM archive devices on the local host.
- Enter a logical name for the patient browser or viewer Transfer/Import-Export To menu with archive targets (e.g. CD_ROM_1).
- Select the drive type.

NOTICE	Do **not** select "Floppy" as archive devices.

- Set the "CD-RW drive", "recording speed" to 8.
- If there is a MOD device, enter the drive by selecting the SCSI address (port/bus/target id) and manufacturer device information
- Select the file system FAT. Do not select SPI file system (not released yet)
- Select only the drive letter c:

- Only available drive letters are displayed in the selection box, manufacturer information is displayed for SCSI devices.
- Select **"Save"** in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Repeat this procedure for all devices (CD-R, MOD) as appropriate.
- Select **"Next or Finish"** in the menu footer.

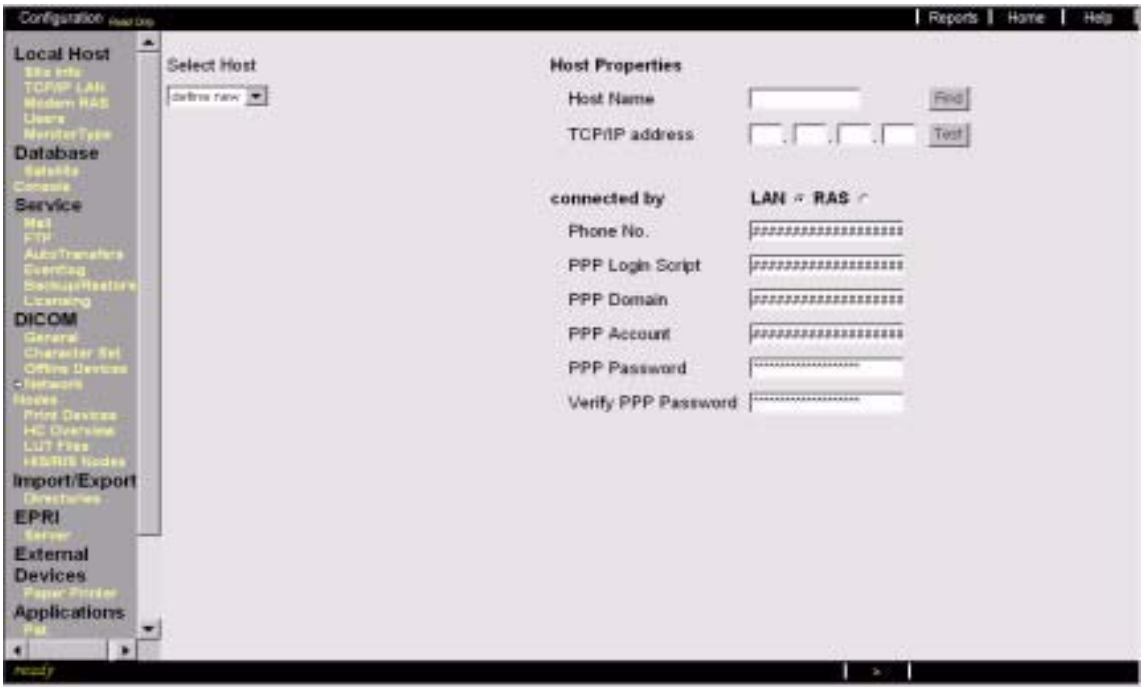
Network node settings

NOTE	**3D Navigation requires a special syntax "N_" for name designations. Example: N_Navi1 in the "edit Name" field.**

NOTE	**To ensure that the network nodes are accepted, the system must be switched on and off at the end of the configuration at the latest.**

When selected, the procedure runs automatically up to the point network nodes. If there are later additions and changes, manually select the point in the selection menu, on the left under **DICOM**.

- The next screen appears by clicking “**>**“in the footer. The pages that appear provide an online description about the steps that follow.

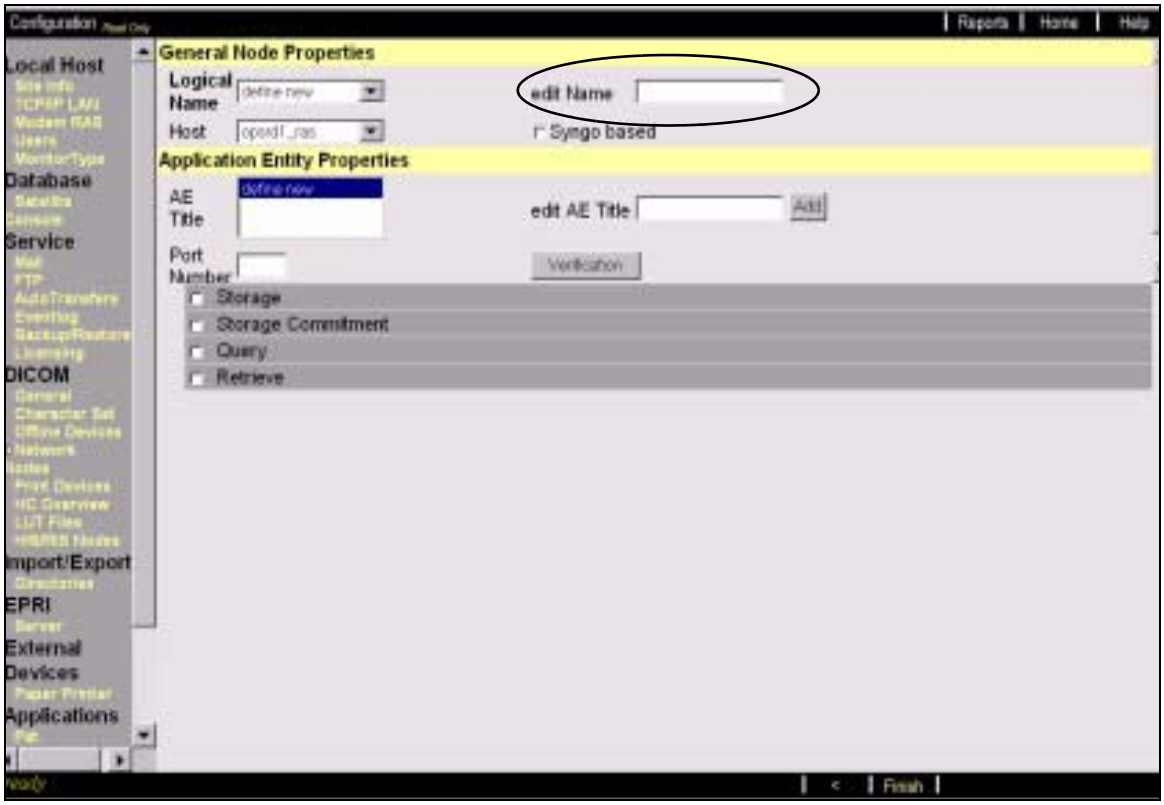


- Definition of network nodes witch are connected to SIREMOBIL Iso-C 3D.
- Select **“define new“** (with a new installation) or accept the entry (with components that are already configured).
- In **“Host Name“**, enter the name of the 1st application (e.g. Magic View).

If a name server is used, and the 1st application is configured in the network, it can be searched for using **“FIND“**.
The response should be: **“Host <name> is sussessfully resolved”**.

- Confirm with **“ok”**.
  - The IP address will then be accepted.
- Select **“connected by LAN“**.

- Select **TEST**. The TEST command corresponds to a PING command.
  - The response should be: **"Host with IP address xxx.xxx.xxx.xxx is alive"**.
- Accept the entry with "**Save**" in the footer.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- If there is no entry, enter a **"Host Name"** for the 1st entry and **"IP address"** (take the data from the configuration table).
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Select **"define new"** again or accept the next entry.
- Repeat the steps described above as often as necessary until all network nodes are entered.
- The next screen appears by clicking "**>**" in the footer. The pages that appear provide an online description about the steps that follow. The **"DICOM network nodes" next menu"**appears.



Here, the remaining data for the previously entered host are supplemented.

NOTICE

Here, only stations and systems should be entered that support the services: Storage SCP or query/retrieve or if there are syngo-based stations.

If stations with ONLY Storage SCU at the network nodes are entered, these appear incorrectly in the user interface in the list of transmit destinations.

- Enter the **"AE Title"** and the **"Port-Number"** of the AET (take the information from the Site Table).

NOTICE

All AEs should start with upper-case letters. This is required for the function of the DICOM tests (e.g. verification).

- At **Select Logical name,** select **"define new"** or accept the entry.
- At **Logical name,** enter the clear text names for application 1 as it is to be displayed later on the user interface.
- Select Syngo-based if this application is Syngo-based.
- In **"Host selection",** select the appropriate network nodes.
- In **"Default Node"**, select the appropriate default. The sequence **"first default"**, **"second default"** or **"no default"** is set. This setting is defined as which application is to be selected as the default.
- In **"Select AE Title"**, if already configured, select the appropriate **"AE-Title"** or enter the AE title (e.g. 049SA1DC53DRSP) and Port Number of application 1 (e.g. 50082) (take the information from the Site Table).
- Select the **Image Transfer(Store), QUERY and/or RETRIEVE** check boxes appropriately to match the possibilities of the modality.
- Only formats supported by the stations (e.g. Implicit little endian...) should be selected, i.e., highlighted in blue.
  Select "Compression" only if the other station supports "Compression". In case of doubt look up or try out in the DICOM Conformant Statement!

NOTICE

Do not use JPEG Lossy Compression!

- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- The connection can be tested using the **"Verification"** button. The TEST command corresponds to a C-Echo command. If the test is successful, the message **"...is responsing"** appears.
- If there are different AET's defined for Storage, Query and Retrieve for individual modalities, they should each be entered with a new entry with different logical names.
- Repeat this procedure as often as needed until all network components, even for different AE titles, have been entered.

- Select **"Next or Finish"** in the menu footer.

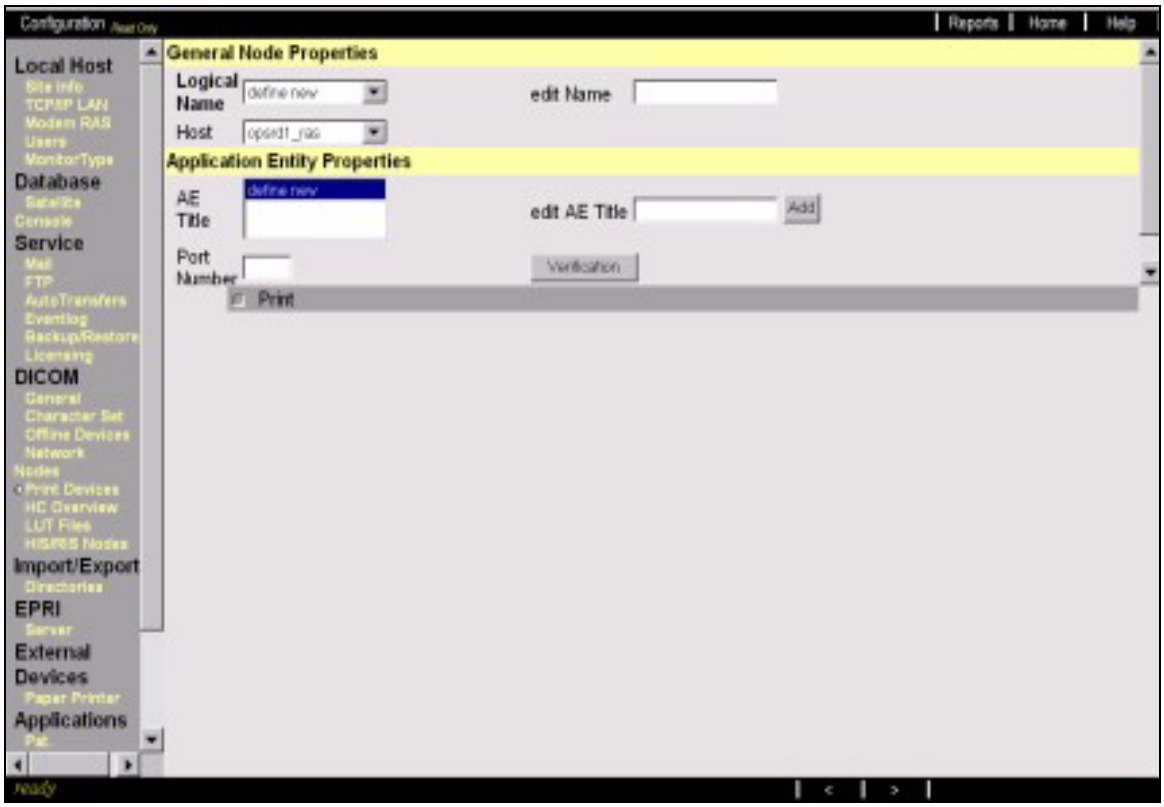
Print device settings

- When selected, the installation procedure runs automatically to the point print devices. If there are later additions and changes, manually select the appropriate point, on the left under **DICOM**.

Configuration of hardcopy devices. Here you define the laser cameras and printers, that are connected to your system.

- At **"Select Host"**, select **"define new"** or the configured camera.
- In **"Host Name"**, accept <Network Name> or enter a name.
- Select **"connected by LAN"**.

- If a name server is used and the application is configured in the network, you can search for it with **FIND**.
- Select **FIND**.
  - The following message should appear:
    Host <Name> is successfully resolved. The IP address is then accepted.
- Using the **"Test"** button, attempt to reach the network component just configured.
  The TEST command corresponds to a PING command.
  - If the test is successful, the message **"...is alive"** appears.
  - If the test is not successful, the message **"...is not alive"** appears.
    A comparison of the entries for the network components and those that have been completed must then be made.
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Repeat the procedure as often as required until all cameras being used are entered.
- The next screen appears by clicking "**>**" in the footer. The pages that appear provide an online description about the steps that follow. The **"DICOM hardcopy device next menu"** appears.

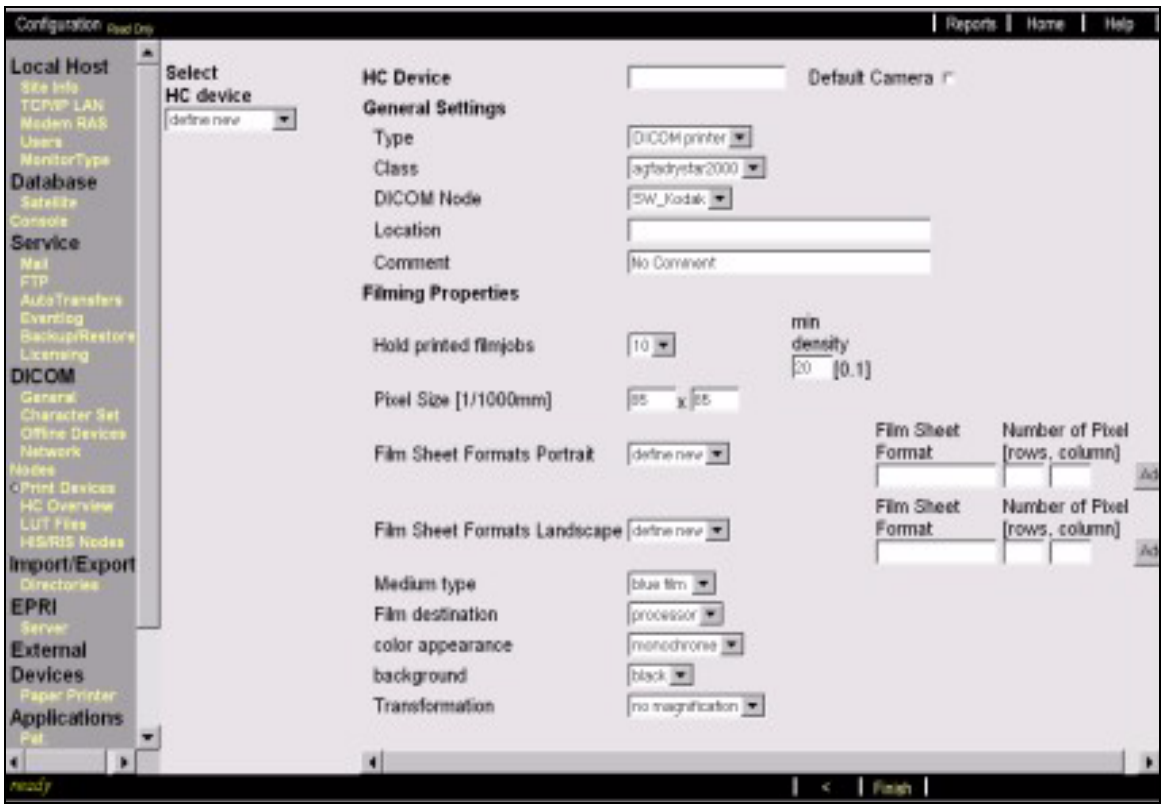


- Take the information from the Site Table.

Here, the remaining data for the previously entered host is supplemented.

- Enter the **"AE Title"** and the **"Port Number"** of the AET.
- In **"Selecet Logical Name"** select **"define new"** or accept the entry.
- In **"Logical Name"**, enter the clear text name for the HCC (e.g. Printer).
- In **"Host selection"**, select the corresponding name of the camera (e.g. Agfa).
- In **"Select AE Title"**, if already configured, select the appropriate AE title (e.g. AGFA01) or select **"define new"**.
- Accept the **"AE Title"** or enter one (e.g. AGFA01).
- Accept the **"Port Number"** or enter one (e.g.104).

- Using the **"Test"** button, attempt to reach the network component just configured. The TEST command corresponds to a C-Echo command.
  - If the test is successful, the message **"...is responding"** appears.
  - If the test is not successful, the message **"...is not responding"** appears. A comparison of the entries for the network components and the entries that have been made is then necessary
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Repeat the procedure as often as required until all cameras being used are configured.
- The next screen appears by clicking "**>**" in the footer. The pages that appear provide an online description about the steps that follow. The **"DICOM hardcopy device next menu"** appears.

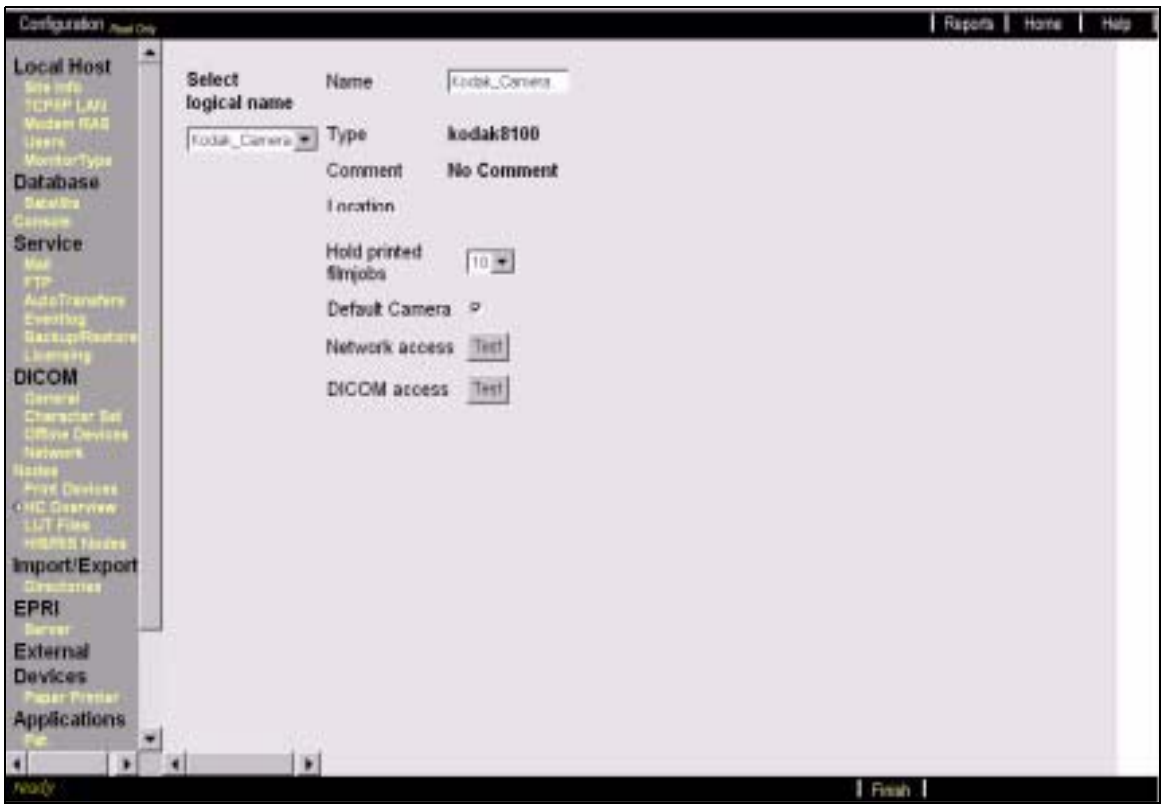


- Entering the Camera Data.
- In "Type" select "DICOM printer".
- In "DICOM Node" select the configured HCC.
- In "Class" select the Camera name.
- At "HC Device" enter the clear text name for HCC as it displayed later on the user interface.
- At "Medium type" select the used medium.
- At "Film destination" select the used destination.

- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Repeat the procedure as often as required until all cameras being used are configured.
- Select **"Next or Finish"** in the menu footer.

Hardcopy overview

- When selected, the installation procedure runs automatically up to the point hc overview. If there are later additions or changes, manually select the appropriate point in the selection menu, on the left under **DICOM**.

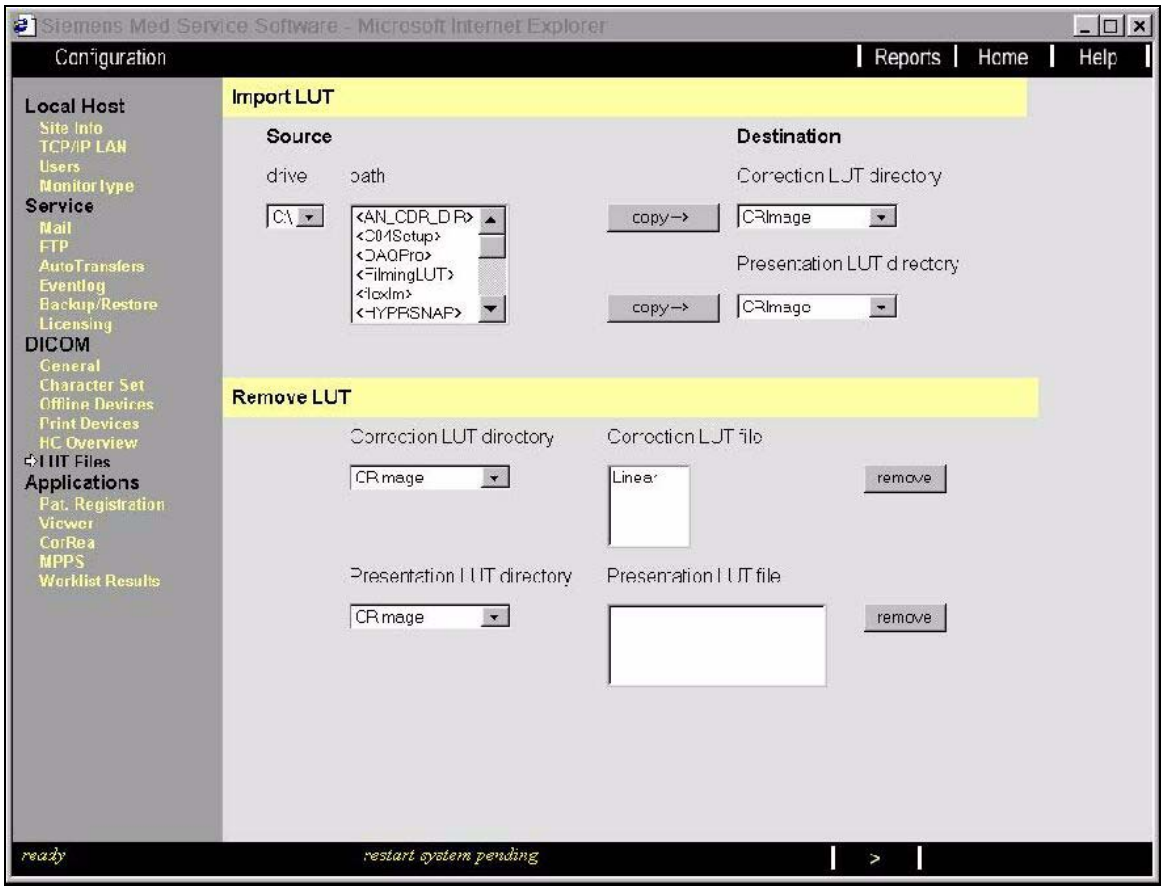


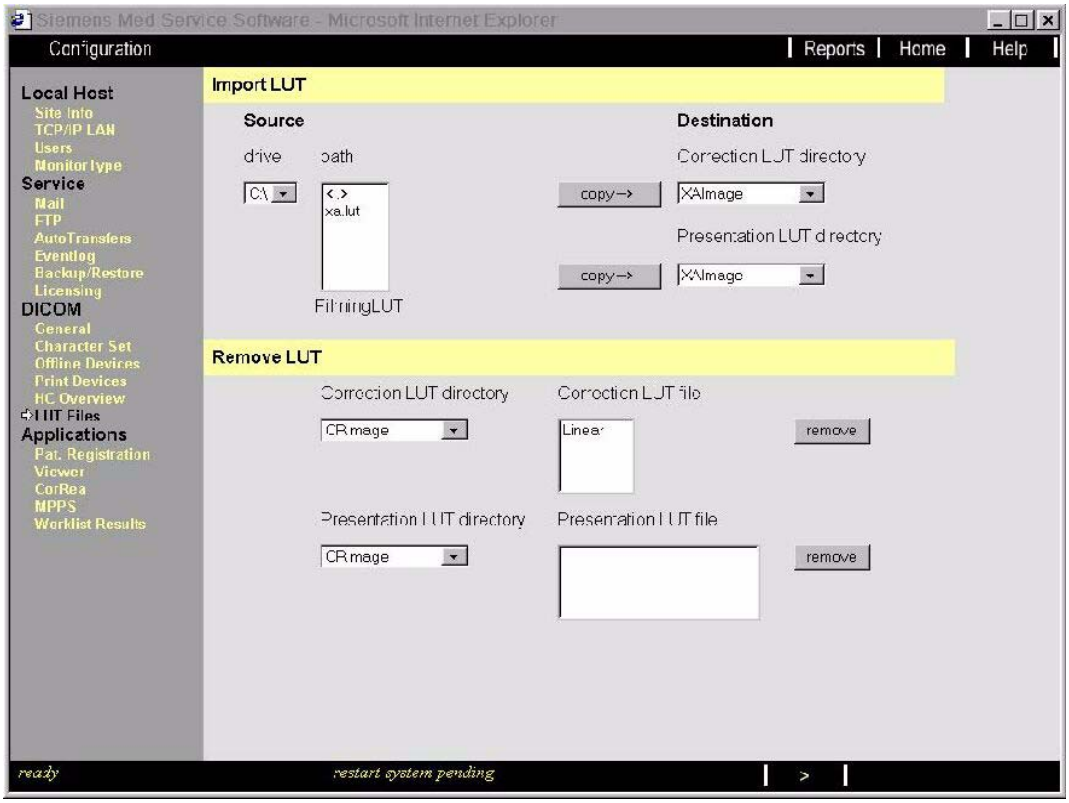
Modification and test capability of the previously entered data

- Using the "**Test**" button, attempt to reach the network component just configured. The network access TEST command corresponds to a PING command. The DICOM access TEST command corresponds to a C-Echo command.
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Select **"Next or Finish"** in the menu footer.

LUT file settings

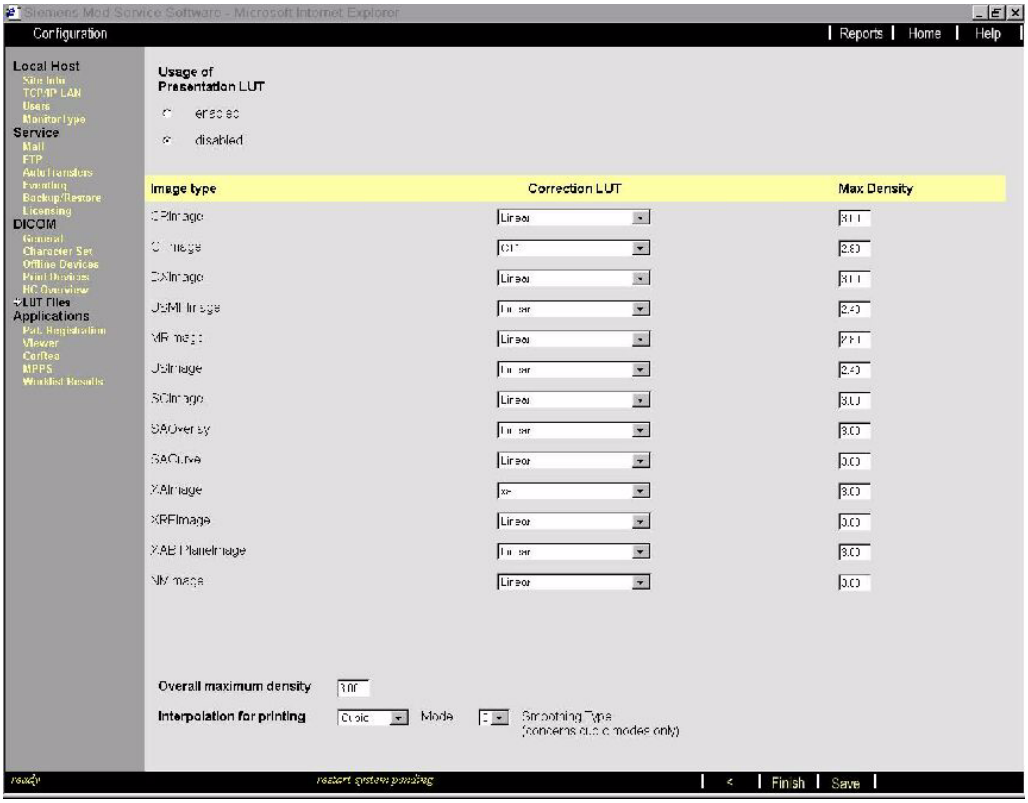
- When HCC is selected, the installation procedure runs automatically up to the point LUT files. If there are later additions or changes, manually select the appropriate point in the selection menu, on the left under **DICOM**.





- In order to set Filming, a new LUT must be loaded and set for the XA characteristic curve. This is stored on the hard disk.
- The next screen appears by clicking “>“ in the footer. The pages that appear provide an online description about the steps that follow.

The **“DICOM LUT files next menu"** appears.

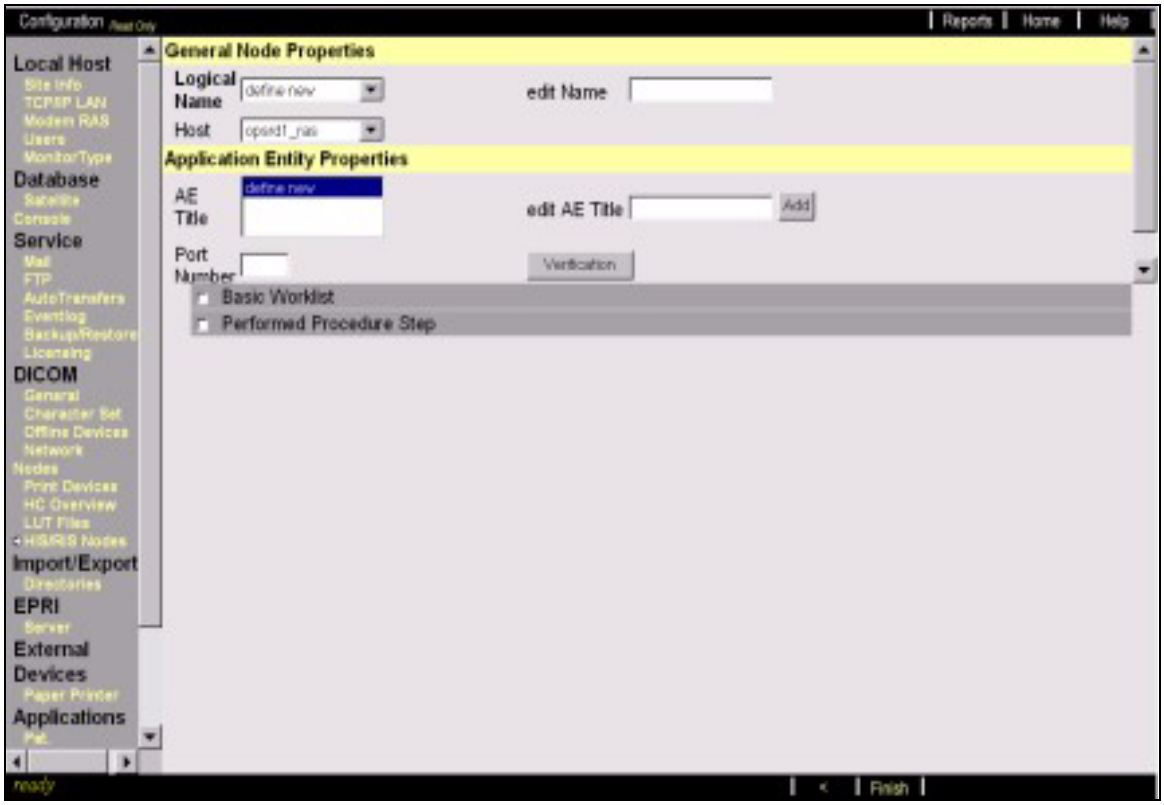


- Select the LUTs for the following "Image types":

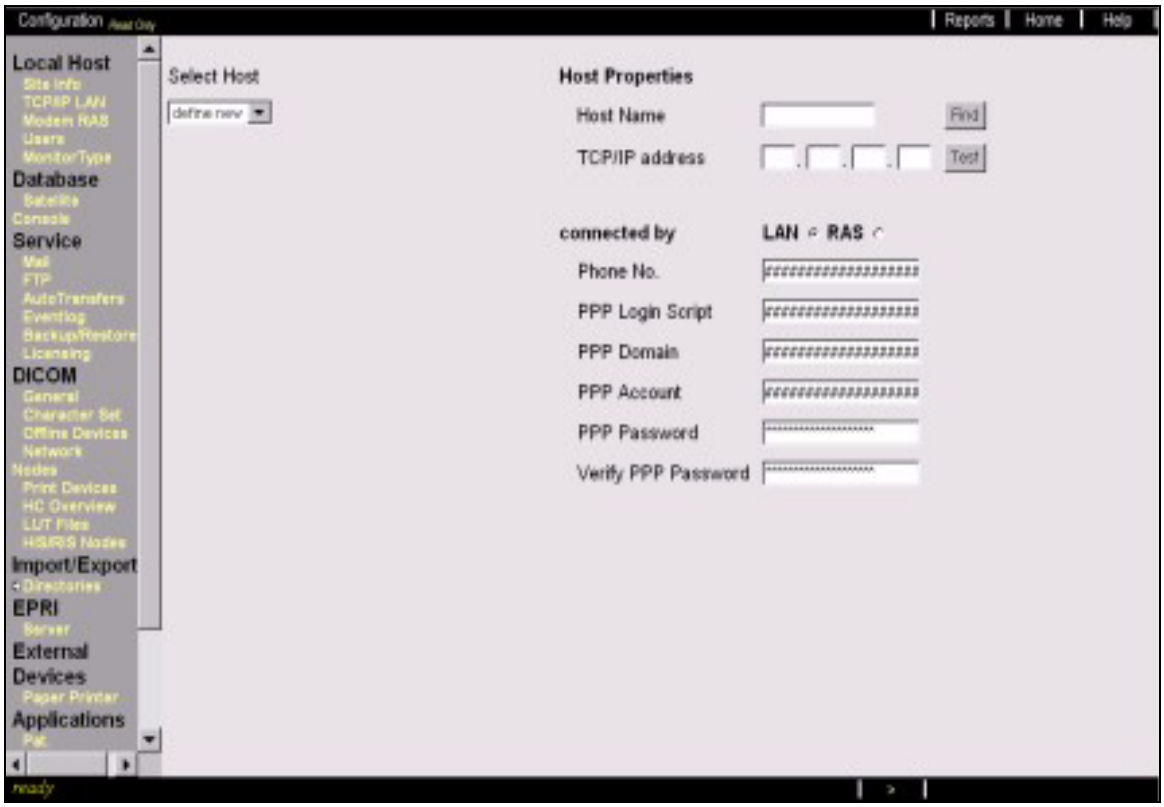
Image type	LUT	Max. Density
XAImage	xa	3.00
CTImage		

- Select “**Save**” in the footer to save the values that were entered.
- Acknowledge the message **“...successfully saved”** with “**ok**”.
- Select **“Next or Finish”** in the menu footer.

HIS/RIS nodes



- If the test is not successful, the message **"...is not alive"** appears.
  A comparison of the entries in the network components and the entries made must then be made.
- Select "**Save**" in the footer to save the values that were entered.
- Acknowledge the message **"...successfully saved"** with "**ok**".
- Repeat the procedure as often as required until all hosts have been entered.
- The next screen appears by clicking ">" in the footer. The pages that appear provide an online description about the steps that follow. The "Next menu" appears.

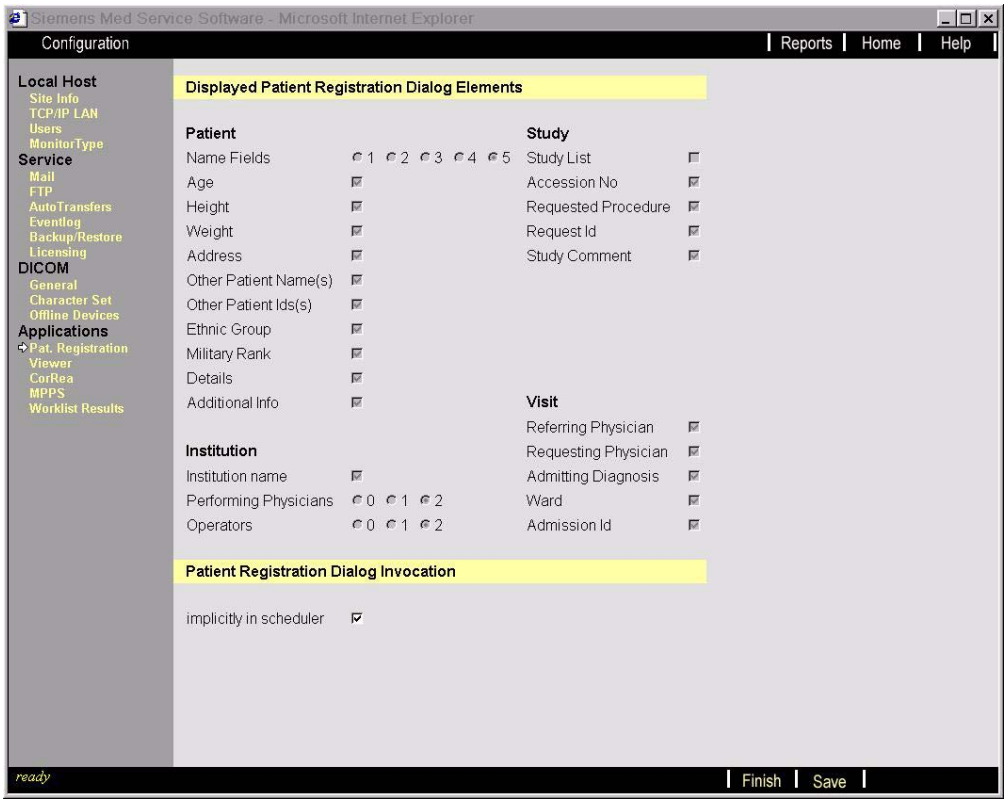


Here, it is defined whether the import/export directory is connected locally **or** through the network.

- The next screen appears by clicking “>“ in the footer. The pages that appear provide an online description about the steps that follow. The next page appears.
- Select "define new" under "Select Logical HD drive".
- Under "Logical Name" enter "Disk_Drive_A".
- Select the radio button "Local system".
- Under "Path" enter "A:\".
- Under "Drive" enter "A:\".
- Click on the "create" button.
- Select “**Save**” in the footer to save the values that were entered.
- Acknowledge the message **“...successfully saved”** with “**ok**”.
- Select **“Next or Finish”** in the menu footer.

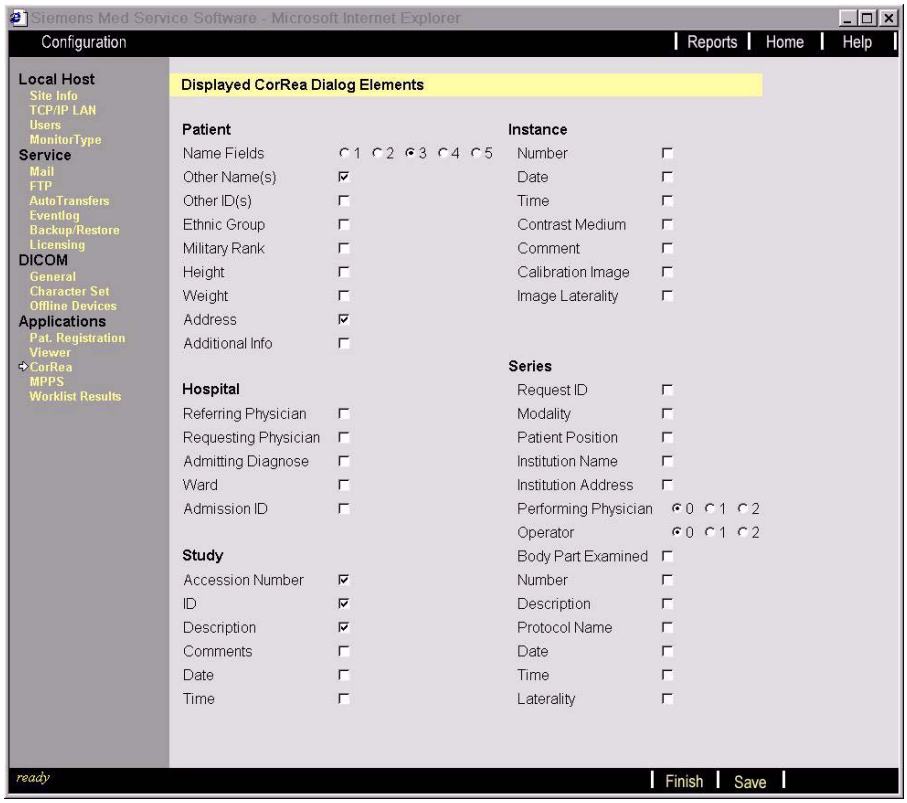
NOTE	**If additional local or remote systems need to be activated, select this page again and enter the necessary dates.**

Patient registration settings

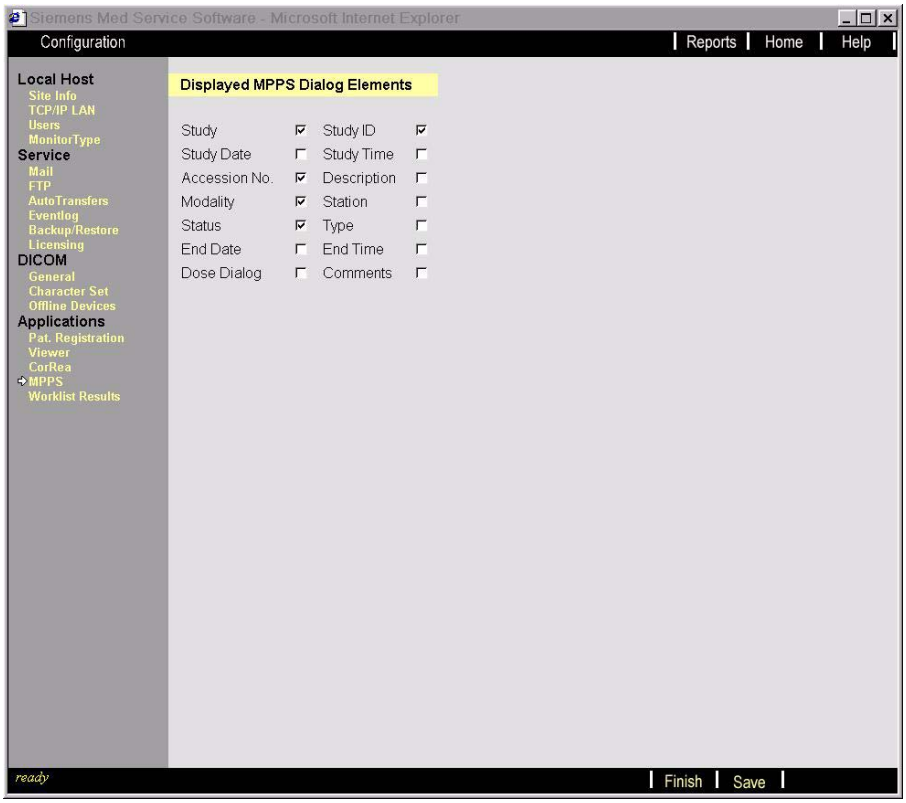


Viewer settings

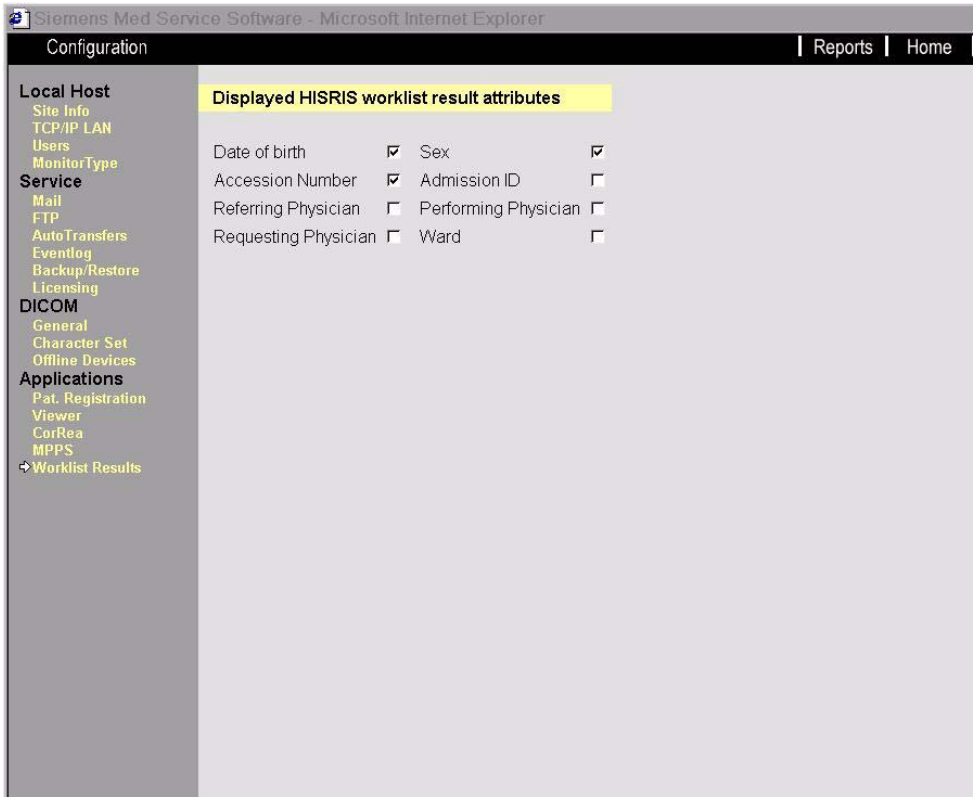
CorRea settings



MPPS settings



Worklist result settings



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Without 3D Navigation

- First perform the calibration and then the 3D limiting resolution.
  See: "Image Quality Quick Test SIREMOBIL Iso-C".
- Continue as described in the chapter "Syngo Configuration".

With 3D Navigation

NOTE	**Observe chapters 1 und 2.**

3D Navigation option is enabled

If the 3D Navigation option is already installed and enabled on the system, carry out the following steps.

- First perform the 3D limiting resolution. If it conforms to the specification, no calibration is required.
  See: "Image Quality Quick Test SIREMOBIL Iso-C".
- Continue as described in the chapter "Syngo Configuration".

3D Navigation option is not enabled

If the 3D Navigation option is not yet installed on the system, perform the following steps.

- Secure the patient data and SW settings 02 (network configuration data) as described in the chapter "Backup/ Restore". If necessary, note down any other configuration data.
- Install the 3D software as described in the chapter "3D Software".
- Load the control software as described in the chapter "Downloading the Control Software".
- Of the SW settings 02, restore the following groups via Restore as described in the chapter "Backup/Restore":
  Service \TCPIP\LAN-Settings
  Service \TCPIP\RAS-Setting
  Service \DICOM\HISRISNodes
  Service \DICOM\LUTFiles
  Service \DICOM\Print Devices
  Service \DICOM\NetworkNodes
  Service \DICOM\General
  Service \LocalHost\SiteInfo

  If necessary, enter any other configuration data manually.
- Perform the mechanical settings as described in the chapter "Mechanical Settings".
- Set the monitor as described in the chapter "Monitor Settings".
- Configure the network nodes as described in the chapter "Syngo Configuration". Observe the syntax "N_" .
- Perform the calibration and then the 3D limiting resolution.
  See: "Image Quality Quick Test SIREMOBIL Iso-C"

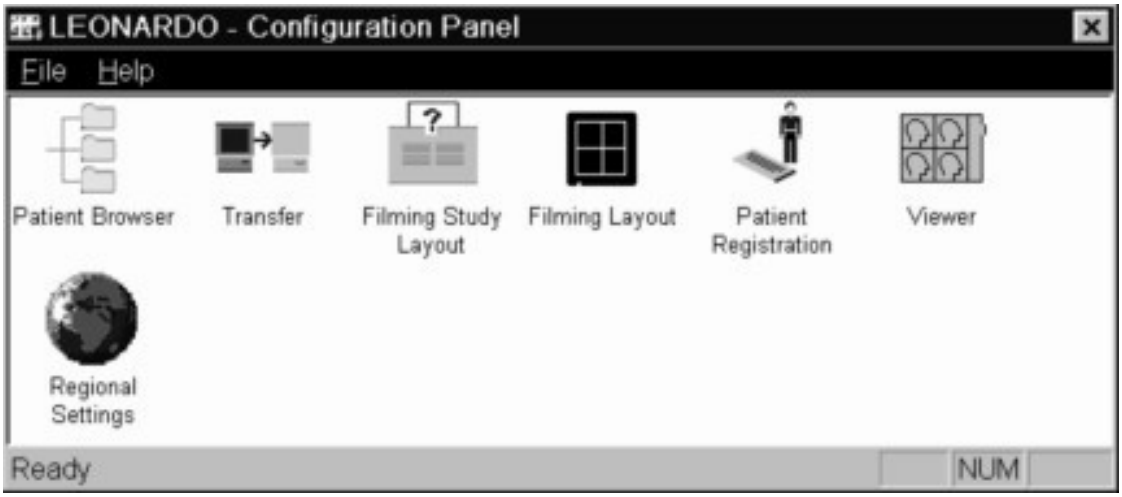
- Check the overall accuracy of the 3D Navigation with the test body.
  See: "Image Quality Quick Test SIREMOBIL Iso-C".
- Continue as described in the chapter "Syngo Configuration".

General remarks

Customer-specific settings can be made using the **"Configuration..."** function.

- From the Viewer Interface select **"<Options> <Configuration...>"**

The following window appears:



Setting the desired user interface language (normally done during installation)

- Double-click **"Regional Settings".**

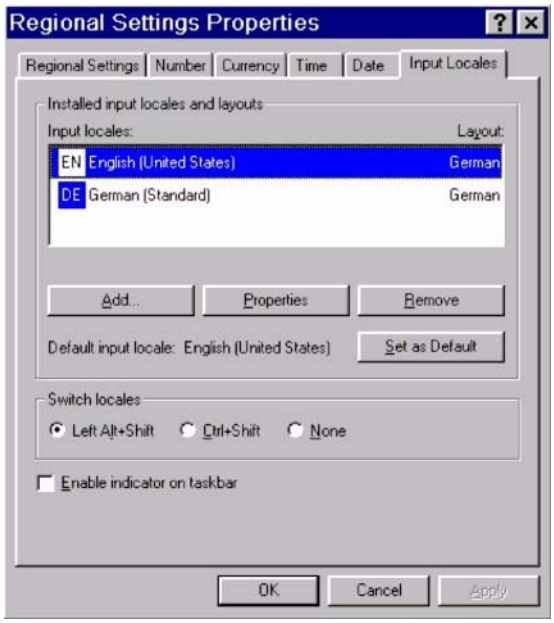
- Select the desired language here and confirm with "OK".

- Confirm the prompt for a restart with "OK" to accept the settings.

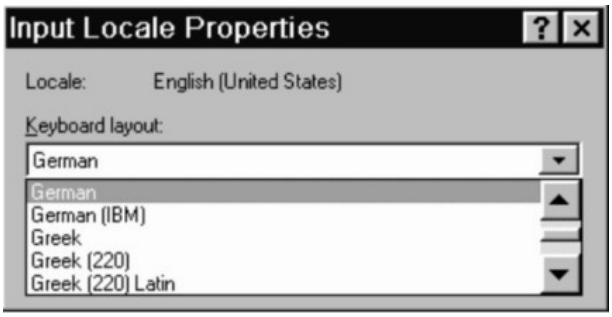
Setting the country-specific keyboard layout (normally done during installation)

- From the Viewer Interface select **"<Options> <Configuration...>".**
- Double-click **"Regional Settings"**.

- Select **"Input Locales"**.



- Double-click the selection used.



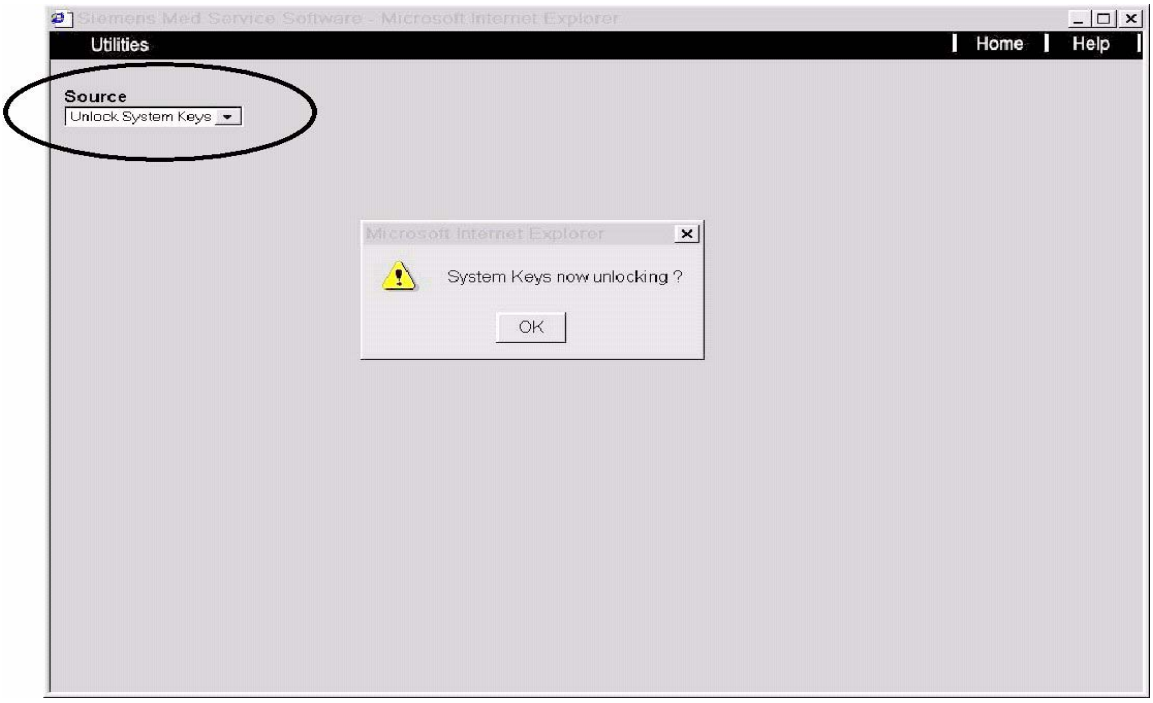
A selection can be made between the English, German and French keyboard layout.

- Select the layout that corresponds to the keyboard that has been shipped in **"Keyboard layout"**.
- Click "OK".
- Click "OK".

Printing on a video printer with Syngo

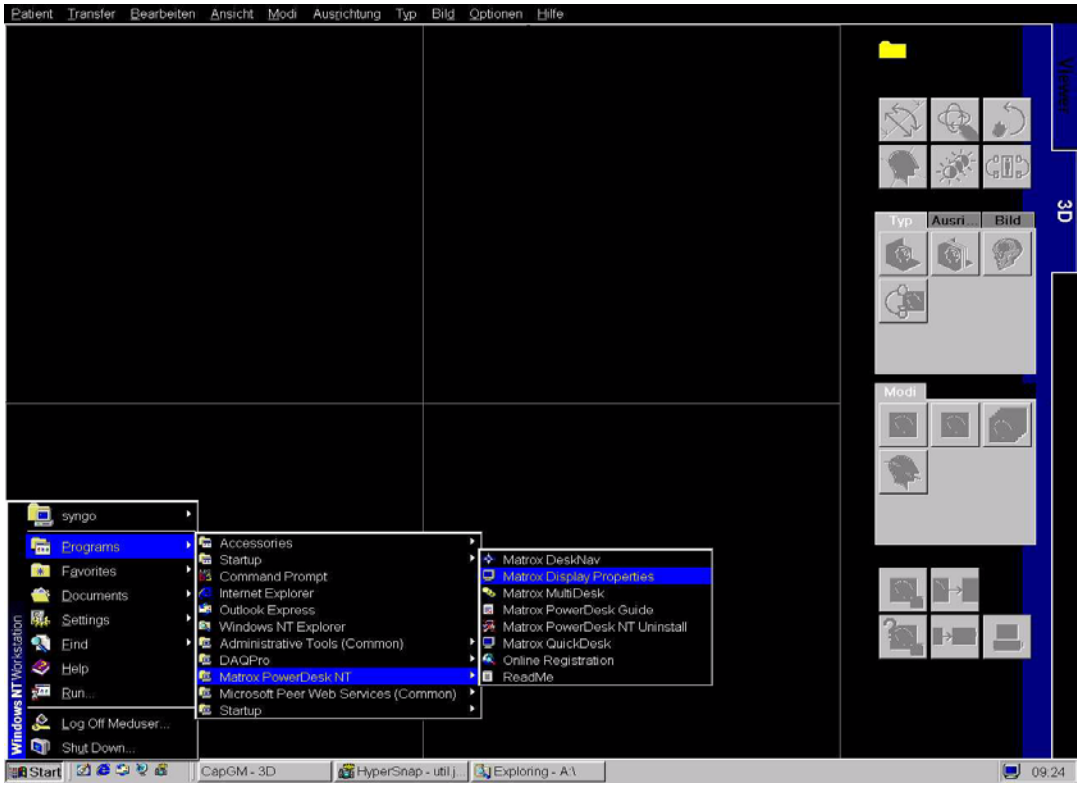
If the image quality of the printouts printed via Syngo on the video printer is insufficient, it may be possible to improve the quality by changing the relevant parameters.

- Select Utilities.

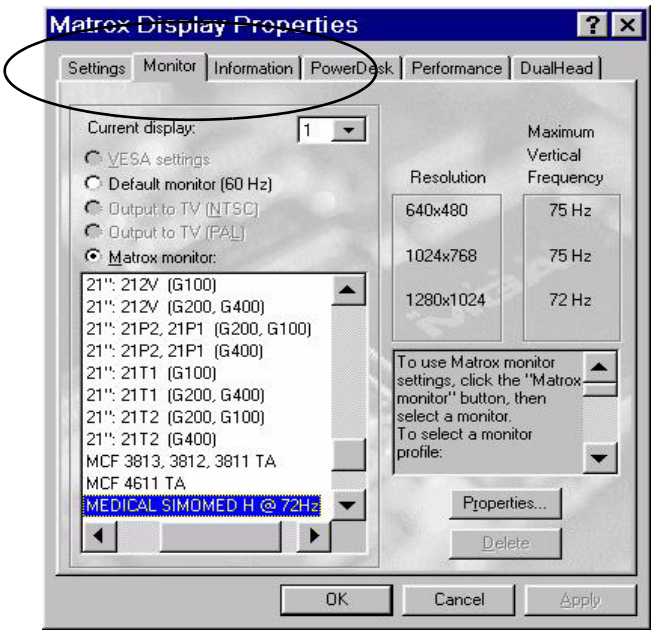


- Under "Source", select the item "Unlock System key".
- Select "OK".
- Press the "CTRL" + "ESC" keys.
- Press the "Enter" key.

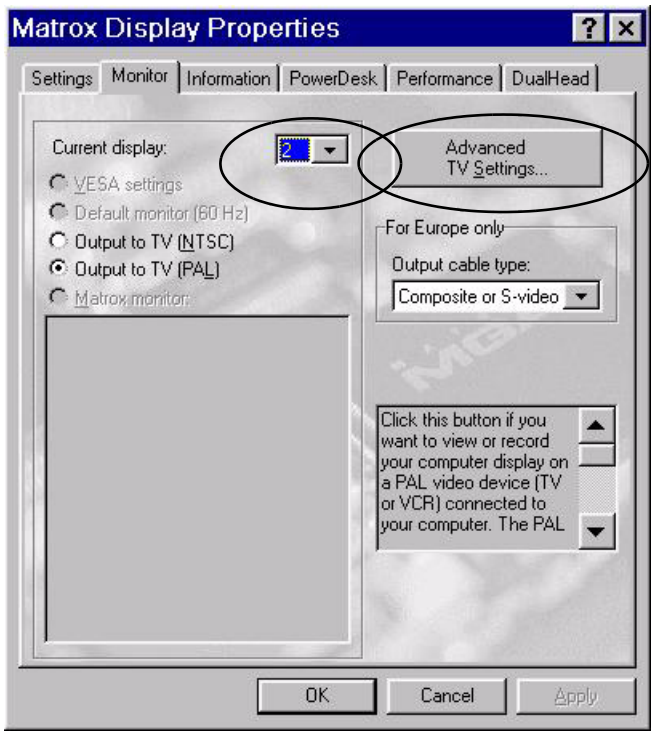
② The Windows "Start" button appears.



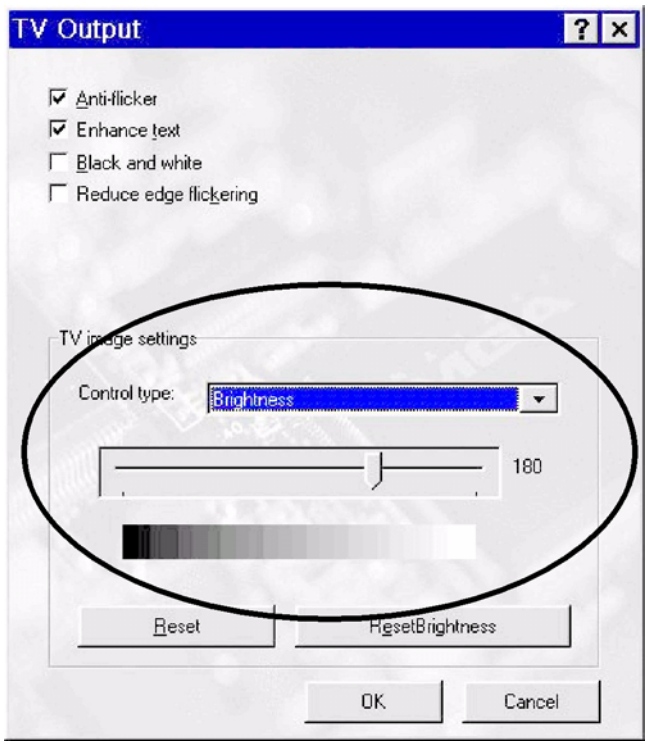
- Select "Start".
- Select "Programs".
- Select "Matrox Power Desk NT".
- Select"Matrix Display Properties".
- Select the "Monitor" tab.

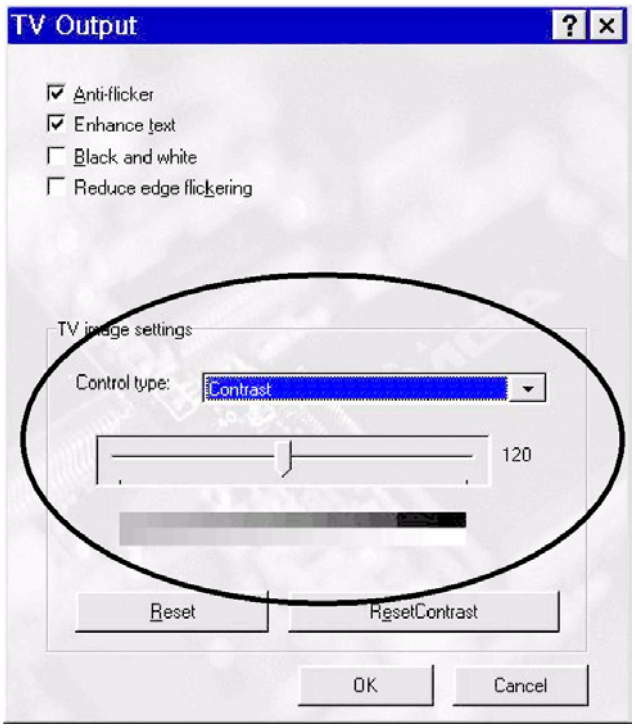


- Select "Current display" 2 and "Advanced TV Settings...".



- Change the brightness and contrast values and try to find the optimal setting by making test prints.





Other customer-specific settings

The settings for other functions should be straight forward and are therefore not described separately here.

Help for these functions can be found in the operating instructions.

NOTICE

Prerequisite for the function test is that the Siremobil Iso-C 3D has been properly entered in all corresponding modalities. The required steps are described in the instructions for the corresponding modalities. All required information regarding this can be taken from the accompanying sheet.

The following functions should be checked:

NOTICE

Images must be sent from the Siremobil Iso-C 3D to the particular connected modality and from the connected modality to the Siremobil Iso-C 3D.

Check point	yes	no
• Are all elements correctly displayed?		
• Is the directory structure (in the browser) with numbers, series and studies retained?		
• Are annotations and overlays retained?		
• Are the special functions of the DR viewer functioning properly, even with images from non-Siemens products?		

NOTICE

If one of these points is answered with “no”, further action regarding correcting the error must be discussed with the responsible USC/HSC.

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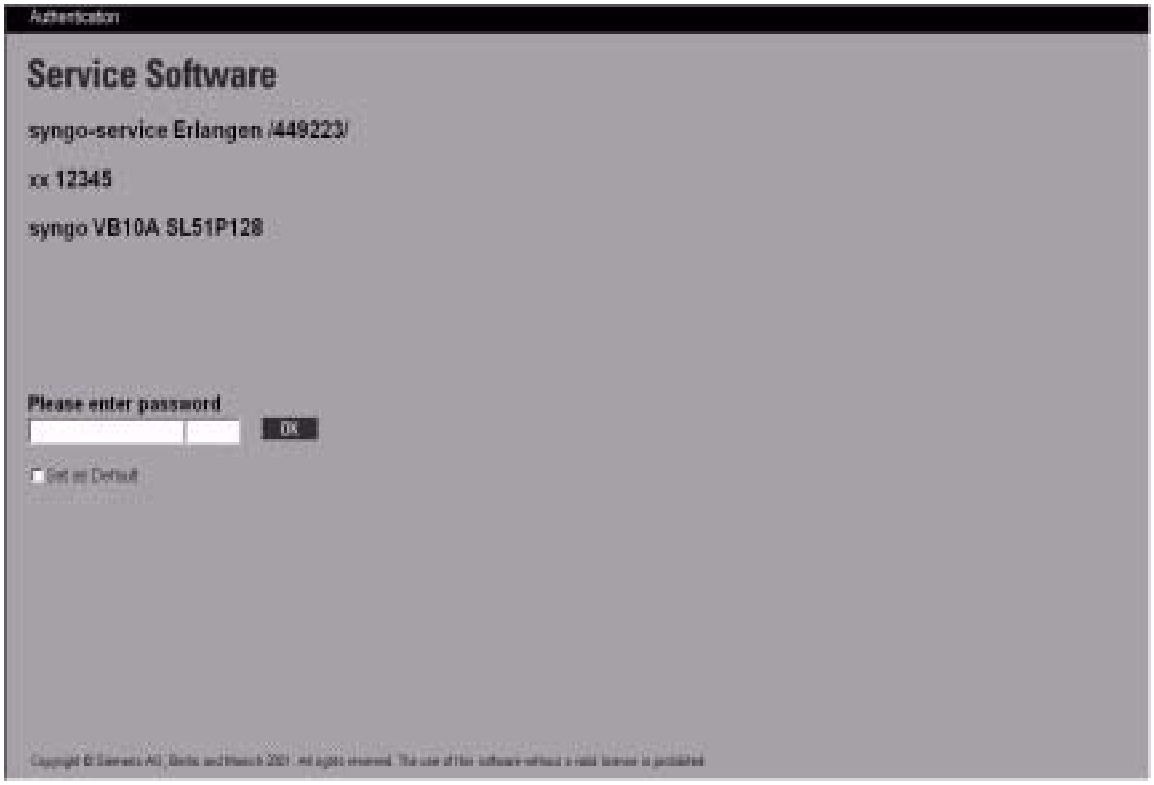
Backup

NOTE	Only use CD-Rs, since CD-RWs may be incompatible with Syngo.

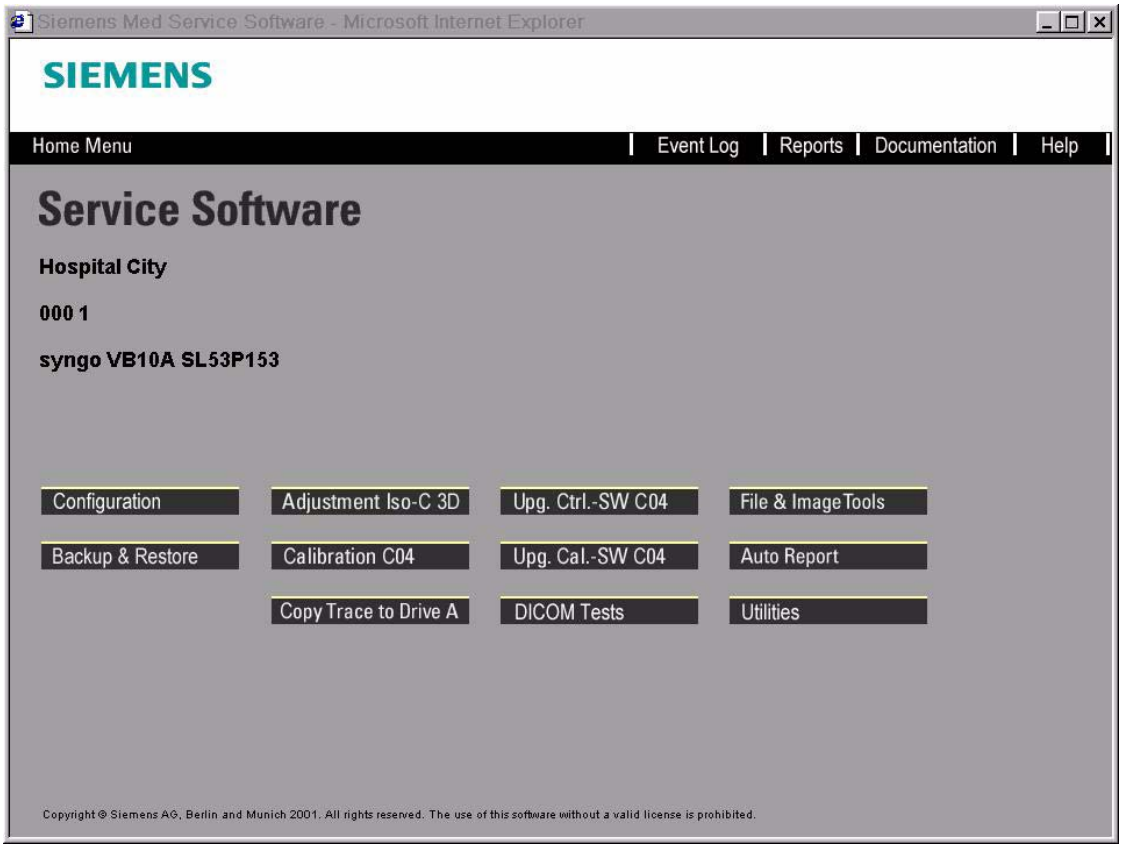
General remarks

- A backup from system-specific tables, similar to tuneup tables or customer specific configuration entries, is always necessary after software updates or system adjustment steps.
- From the Syngo User Interface, please select "**Options>>Local Service**" in the window menu header..



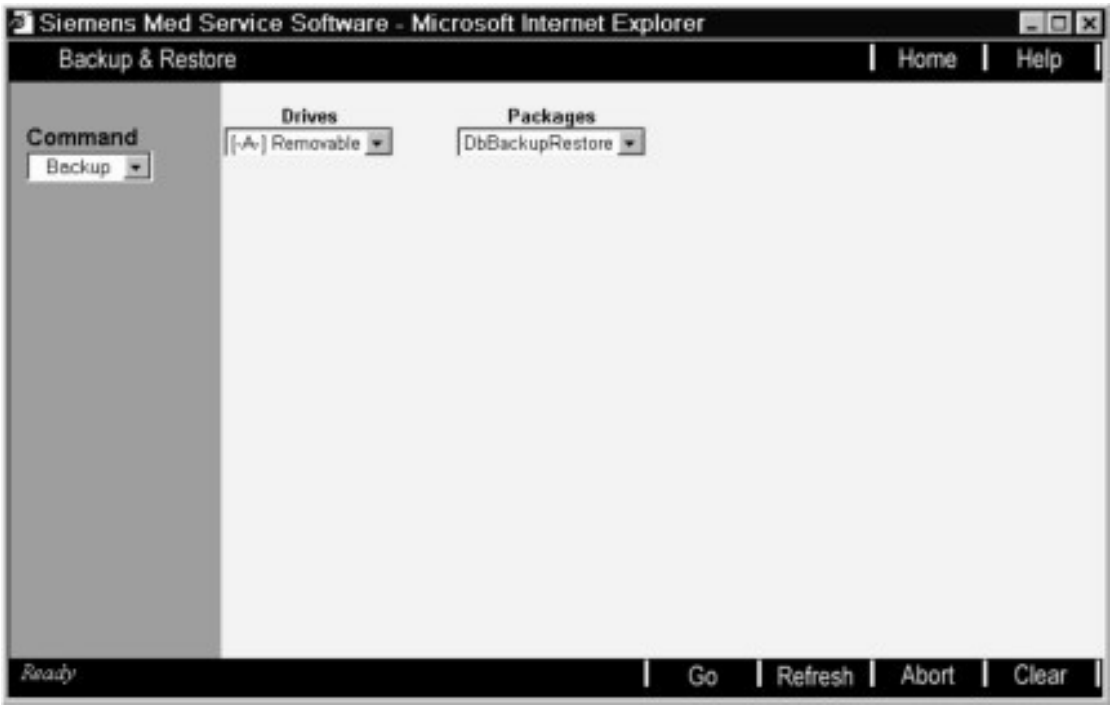
- Enter the service key (6 characters in 2nd mask).
- Confirm with <OK>.

The Service Home menu appears.



- Have blank CDs/diskettes ready.
- Select **"Backup & Restore"**
- Insert the backup CD / diskette.

The following window appears:



- In the “Command” selection menu, select “Backup”.
- Select the corresponding storage medium, CD or diskette, under "Drives".
- The corresponding package is selected in “Packages” and saved with “Go”.
- Select the Package "SW Settings" and save with "GO".
- Wait until the "Ready" message appears in the footer.
- Select thethe Package "User Settings" and save with "GO".
- Wait until "Ready" message appears in the footer.

NOTICE

If subsequent changes, e.g. in the configuration, need to be made, the corresponding backup package must be saved again.

NOTICE

With a backup of the "SW Settings", the "TCP/IP LAN", "DB ID Offset" and "Backup/Restore" data are not saved. In other words, they must be noted.

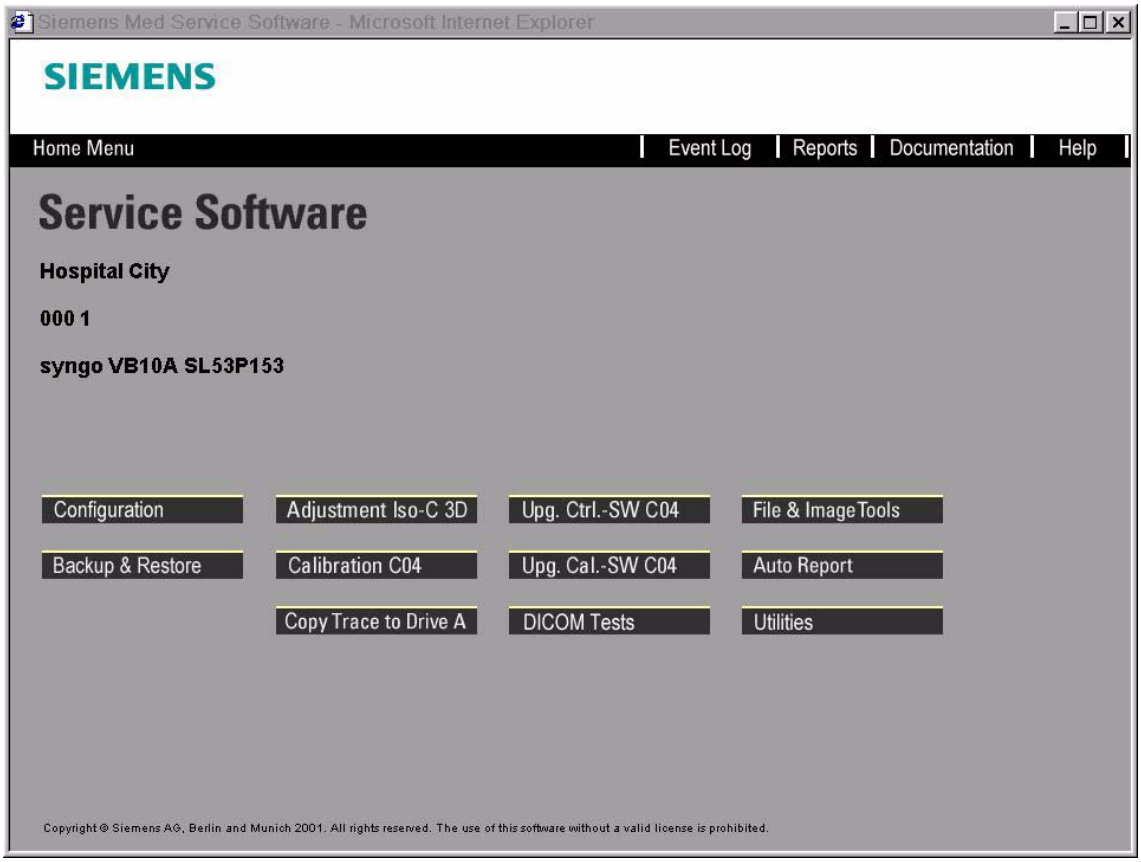
- Exit the window with “Home”.
- Remove the backup CD / diskette from the drive.

Restore

- From the Syngo User Interface, please select "**Options>>Local Service**" in the window menu header.

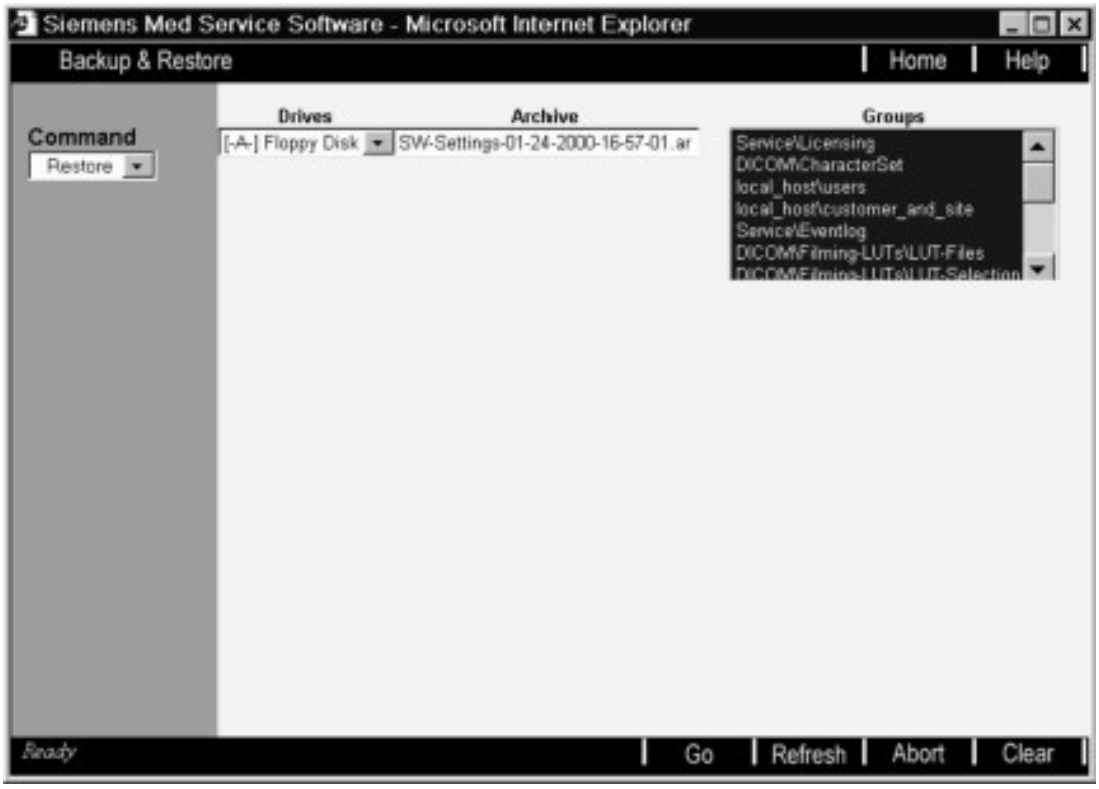
- Enter the service key (6 characters in 2nd mask).
- Confirm with <OK>.

The Service Home menu appears.



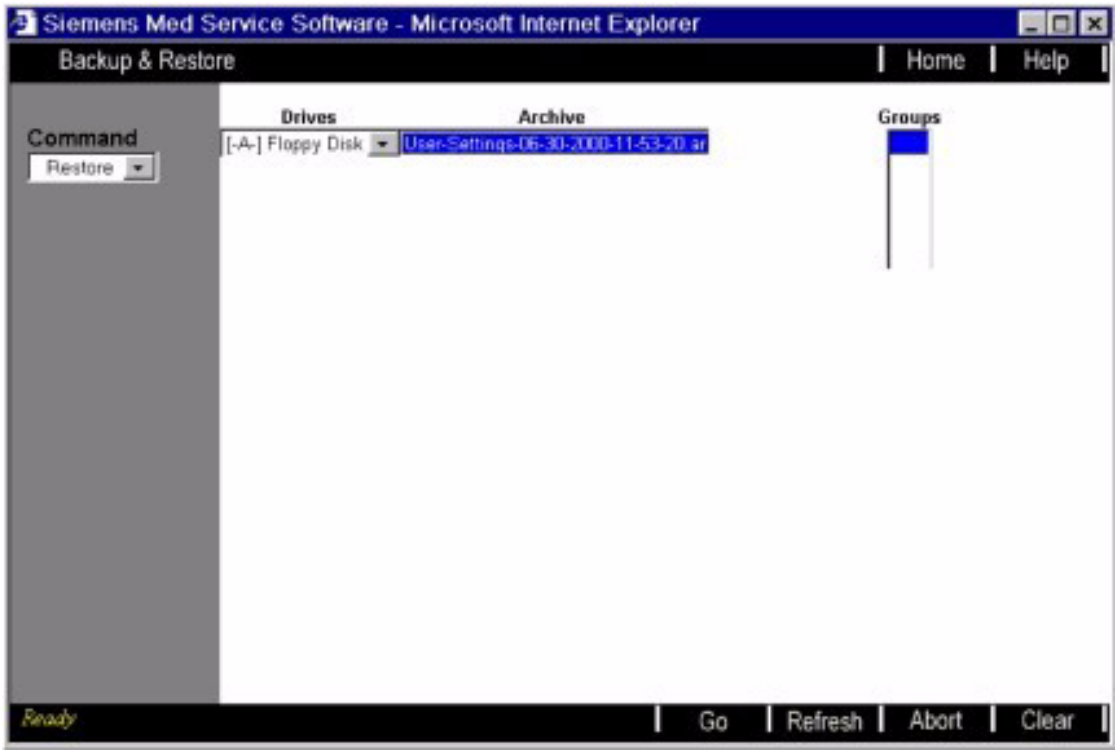
- Select **“Backup & Restore”.**
- Insert the backup CD / diskette.
- Select "Restore" in the “Command” selection menu.
- Select the "Drive" in which you have inserted the backup CD / diskette.

Restore SW settings



- In “Archives”, select the correct (latest) SW settings backup file.
- Mark all files in "Groups", i.e. highlighted in blue (with Ctrl or Shift +left Mouse).
- The restore routine is started with “Go”.
- Wait until the "Ready" message appears in the footer. This takes a few minutes.
- Exit the window with “Home” or go to Restore User Settings.

Restore user settings



- In “Archives”, select the correct (latest) User Settings backup file.
- Mark all files in "Groups", i.e. highlighted in blue (with Ctrl or Shift +left Mouse).
- The restore routine is started with “Go”.
- The WS initiates a restart.
- Remove the backup CD / diskette from the drive.

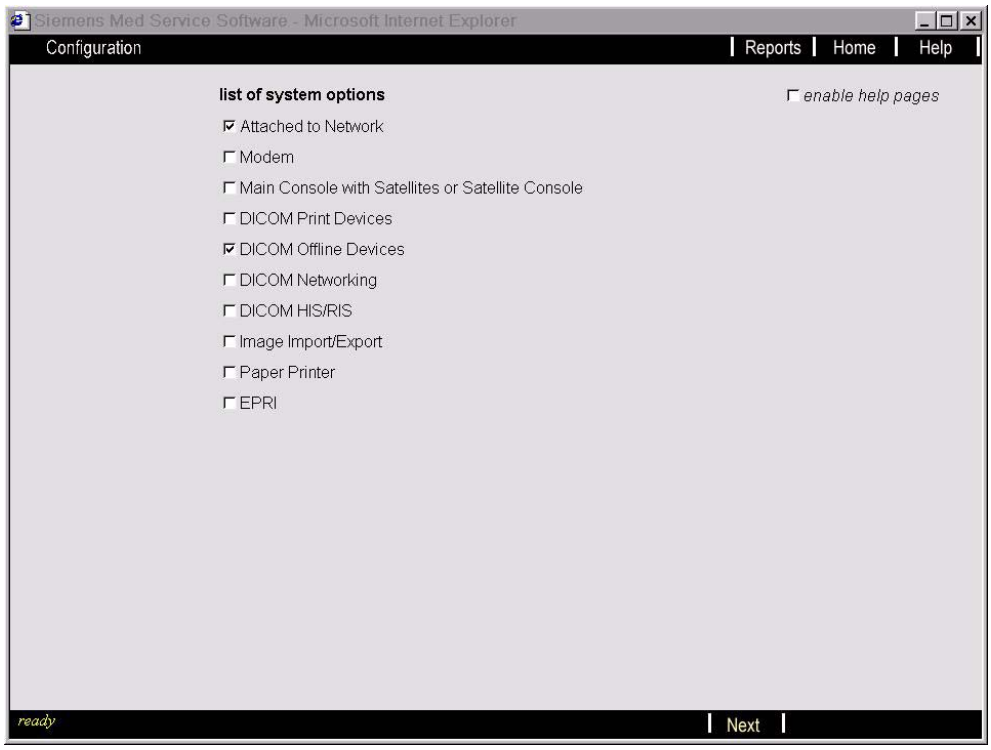
NOTICE

With a restore of the "SW Settings", the "TCP/IP LAN", "DB ID Offset" and "Backup/Restore" data are not restored. In other words, this information must be reentered manually.

Manual SW settings

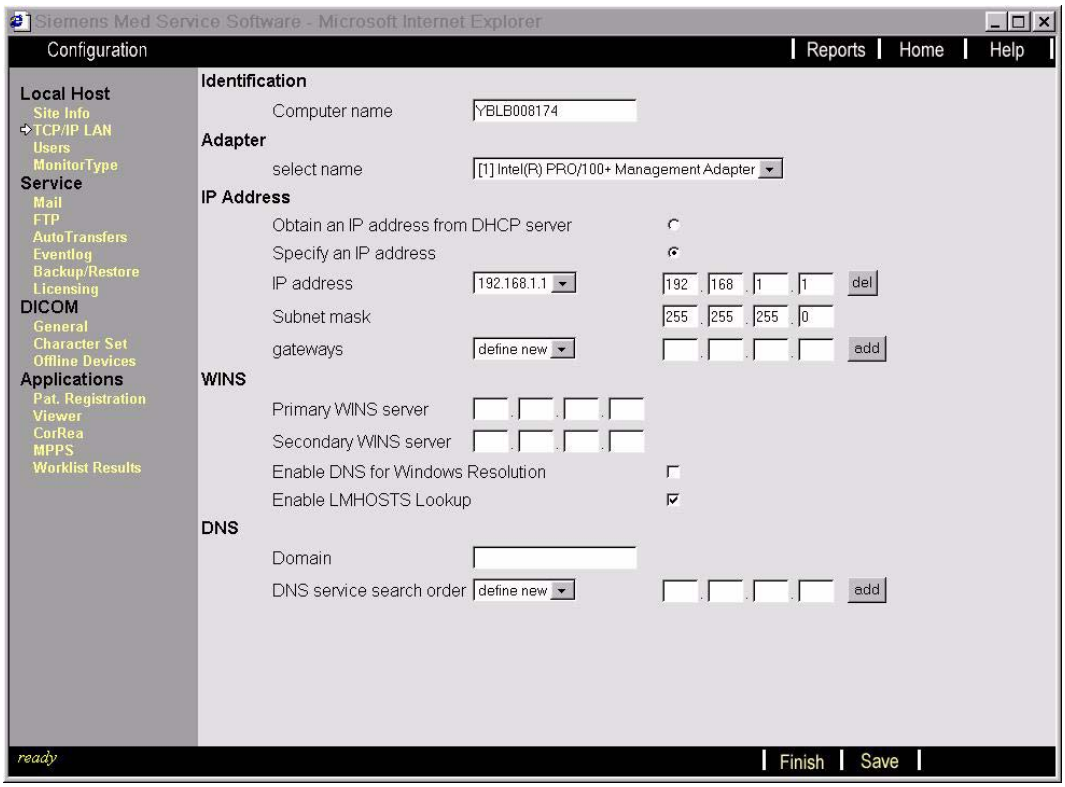
- Select **"Configuration"** in the Home menu.

The Selection menu appears.



- In the footer: select **"Next"**.
- Skip the next screen with **"Next".**
- The installation procedure runs automatically to the point TCP/IP LAN.

- The next screen appears by clicking “>“ in the footer. The pages that appear provide an online description about the steps that now follow.

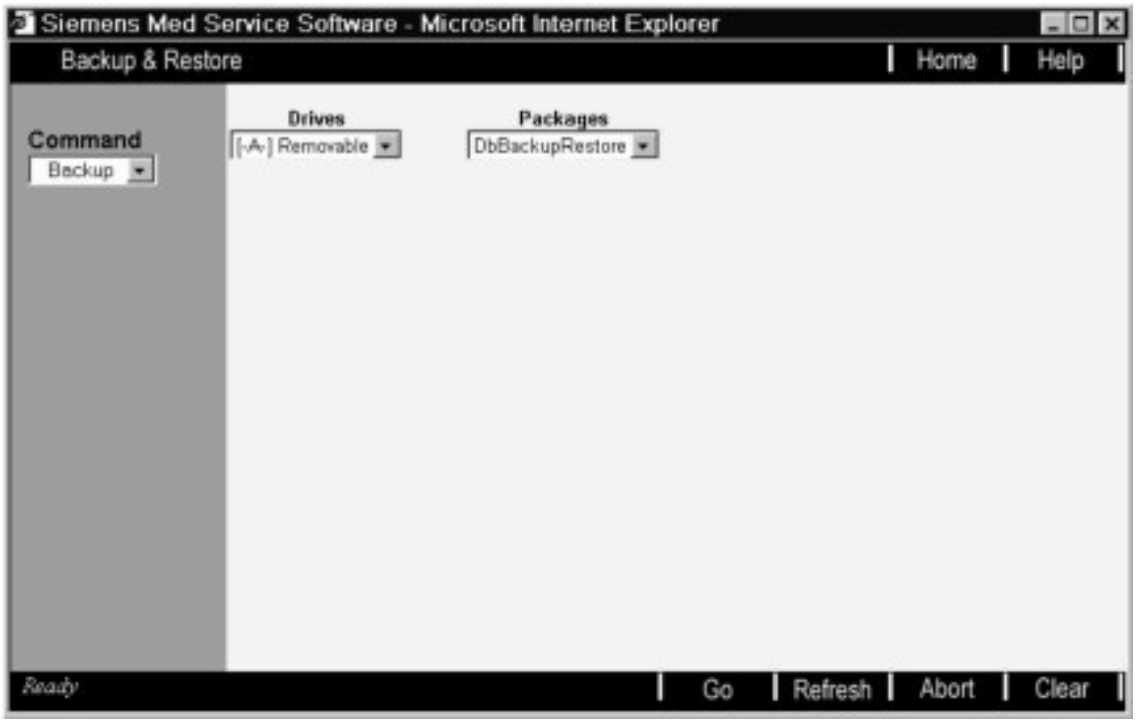


- Find the **“Computer name“** in the configuration table and enter it.
- Select the radio button: “**Specify an IP address**” unless otherwise indicated.
- Take the IP addresses from the configuration table and enter them.
- Delete any previously entered IP addresses.
- If certain components are not configured (Gateways, DNS or WINS), any entries that are in these screens should be deleted.
  The corresponding check boxes should then be deselected.
- Select the “Enable LMHOSTS Lookup” check box.
- Select the “Enable DNS for Windows Resolution” check box only if WINS servers are configured.
- Select “**Save**” in the footer to save the values that have been entered.
- Acknowledge the messages **“.... after reboot”** with “**ok**”.
- Acknowledge the messages **“.... successfully saved”** with “**ok**”.
- Select “**Next**” in the menu footer.
- The installation procedure runs automatically to the point DB ID Offset.

- The next screen appears by clicking “**>**“in the footer. The pages that appear provide an online description about the steps that follow.

- Leave the Index **unchanged** at “**0**”.
- Select **“Next”** in the menu footer.
- The installation procedure runs automatically up to the point Backup & Restore.

- The next screen appears by clicking “>“in the footer. The pages that appear provide an online description about the steps that follow.



- Backup/Restore allows you to specify the data to be saved and restored when executing the Backup & Restore function of your service software.
- The preset packages are sufficient here and should therefore not be changed.
- Select **“Next or Finish”** in the menu footer.
- Exit the window with “Home”

Confirm the request to reboot with "OK".

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System-specific tables, such as tuneup tables and customer-specific configuration entries, have to be backed up (and restored) when updating the software or when modifying system parameter.

1. The regional settings, date & time, keyboard and language are not contained in the backup set. Consequently, the configuration of regional settings has to be executed after each software installation.
2. When using a MOD for backup, note that in the application the MOD media can only be ejected within the ArchNet functionality or the patient browser.

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Station

NOTICE

This page serves as a memo for registering the WS to all connected modalities. Here, the most important information that is needed to assure image transfer at the DICOM level is summarized.

The table must be filled out and made available as a copy to the service personnel for the other modalities as information for the installation.

Siremobil Iso-C 3D Data	Parameter	Remarks
Host name		
IP address		
DICOM storage SCP and SCU		
DICOM print SCU		
AE title for storage		
AE title for print		
Port for storage	104	
Port for print	104	
Supported DICOM services: Image Transfer (Store) Query Retrieve	 yes yes yes	
Supported transfer syntax Implicit little endian Explicit little endian Explicit big endian	 yes yes yes	
Supported compression JPEG Lossy JPEG Lossless	 not recommended yes	
Syngo-based system	yes	
Supported IOD´S	see conformance State-ment	

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Final work steps

- Close all covers. Watch the ground wire connections when doing so.
- Perform the Image Quality Quick Test (refer to the SIREMOBIL logbook).
- Perform the protective conductor test in accordance with ARTD - 002.731.17.
  The protective conductor resistance must be <= 0.2 ohms.
- File the instructions in the System Binder or System Logbook.
- After completing the configuration, the following information must be reported to the USC management system:
  - ➪ Dongle ID
  - ➪ PC identification number

Responsible ITC call center (hardware service) in the particular country. Refer to the list enclosed with the PC for this information.

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Chap. 0	Cover sheet, revision level and table of contents generated again
Chap. 1 to 16	Revision level increased
Chap. 1	Necessary documents supplemented Necessary measuring equipment updated
Chap. 3	Programming "Enable Bridge" added.
Chap. 4	Note for published patches added.
Chap. 7	Adjustment for TFT monitors supplemented
Chap. 8	Programming CD-RW recording speed added. Programming Disk Drive A added.

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